

Volume

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BOOK A-328

A.

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FIELD NOTES

OF THE SURVEY OF THE

East and North Bodys.

OF

UINTAH INDIAN RESERVATION

Of the Meridian,

State of Utah

AS SURVEYED BY

ARTHUR H. BROWN and FRED M. BROWN, United States Deputy Surveyors

their Contract No. 264, dated July 20, 1903, 180

Survey commenced Aug 27, 1903, 189

Survey completed July 1, 1904, 189

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Aug 27, 1904
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NAMES AND DUTIES OF ASSISTANTS.

John P Hitz - chairman
Otto B Von Aix - chairman
D L Caldwell - moundsman
G W Caldwell - moundsman
Rock Lobins - axman
J B Hall - flagman

PRELIMINARY OATHS OF ASSISTANTS.

WE, John P. Kibb and Otto B. Von aux
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
we will report the true distances to all notable objects, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of
The East and North Bdry's Uintah Indian Reserve
Utah
John P. Kibb, Chairman.
Otto B. Von aux, Chairman.

Subscribed and sworn to before me this 26th
day of August, 1903



WE, D. C. Caldwell and G. W. Caldwell
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment
of corners, according to the instructions given us, to the best of our skill and ability, in the survey of
The East and North Boundary's Uintah Indian Reserve
Utah
D. C. Caldwell, Moundman.
G. W. Caldwell, Moundman.

Subscribed and sworn to before me this 26th
day of August, 1903



WE, Rock Labrum and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners
and other duties, according to instructions given us, to the best of our skill and ability, in the survey of
The East and North Bdry's Uintah Indian Reserve
Utah
Rock Labrum, Axman.

Subscribed and sworn to before me this 26th
day of August, 1903



I, J. C. Hall, do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
survey of The East and North Bdry's Uintah Indian Reserve
Utah
J. C. Hall, Flagman.

Subscribed and sworn to before me this 26th
day of August, 1903



Fred M. Brown
D. S. Deputy Survey

EAST BOUNDARY OF THE UNTAH INDIAN RESERVATION

CHAINS

Survey commenced August 27, 1903, and executed with a W. and L. E. Gurley, Light Mountain Transit, with solar attachment, the horizontal limb being provided with two opposite verniers, reading to single minutes of arc, which is also the least count of the verniers of the lat. and decl. arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah, August 20, 1903.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during p.m. and a.m. hours, with a meridian determined by observation on Polaris, I proceed as follows:

I begin at the 23d mile cor., which is a sandstone, 5x9x5 ins. above ground, marked and witnessed as described by the Surveyor General, in approximate lat. $40^{\circ} 25' N.$ Longitude $109^{\circ} 48' W.$ At 4 h., 00 m., p.m., l.m.t., I set off $10^{\circ} 15' N.$ on the decl. arc; $40^{\circ} 25' N.$ on the lat. arc, and mark the meridian thus determined with the solar by a cross on a stone firmly set in the ground, 5.00 chs. N. of the cor.

At 9 h., 08 m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a wooden peg set in the ground, 5.00 chs. N. of my station.

August 27, 1903.

August 28, 1903, at 6 h., 00 m., a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 36'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 of an inch west of the mark determined by the solar.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

At 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 25'$ N. on the lat. arc; $10^{\circ} 00'$ N. on the decl. arc, and mark the true meridian determined with the solar, by a cross on the stone already set, 5.00 chs. N. of my station. This mark falls 0.3 ins. west of the meridian established by the Polaris observation. The solar apparatus by p.m. and a.m. observations, defines positions for meridians about $0' 11''$ E., and $0' 16''$ W. of the meridian established by the Polaris observation, therefore, I conclude that the adjustment of the instrument is satisfactory.

The magnetic bearing of the meridian at 9 h., 15 m.. a.m. is N. $16^{\circ} 10'$ W., the angle thus determined gives the magnetic decl. $16^{\circ} 10'$ E.

From the 23d mile cor. heretofore described, I run N. $39^{\circ} 30'$ E., on the 24th mile, over mountainous land, through dense sage-brush, ascending.

27.25 Road, runs S.E. to N.W.

40.00 Set a sandstone, 30x12x10 ins., 23 ins. in the ground, for 1/2 mile cor., which is also an angle cor., marked 1/2 M on S., and \angle U I R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Pits impracticable.

Thence N. 11° W.

38.50 Culch, drains E.

40.00 Set a sandstone, 30x12x10 ins., 23 ins. in the ground, for the 24th mile cor., which is also an angle cor.. marked 24 M on S., \angle U I R on W., and P L on E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Pits impracticable.

Land mountainous.

Soil, gravelly loam, 3d rate.

No timber.

Mountainous land, 80.00 chs.

No trace of old cor. can be found.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	25th Mile
	N. 18° E. on the 25th mile.
	Through dense sage-brush and scattering cedars, over mountainous land, ascending.
24.00	Head of draw, drains E.
40.00	Set a sandstone, 20x12x9 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on S. face, U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
70.00	Line runs 50 lks. W. of wash, drains NW. to SE.
80.00	Set a hard sandstone, 29x14x9 ins. 22 ins. in the ground, for the 25th mile cor., marked 25 M on S. face, P L on E. face, and U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. Land mountainous. Soil gravelly loam; 3d rate.
	Timber, scattering cedars, 80.00 chs.
	Mountainous land, 80.00 chs.
	August 28th, at 12 h., 00 m., noon, l. m. t., sky overcast, and solar observations impossible.

	26th Mile
	N. 18° E. on the 26th Mile.
	Over mountainous land, through dense sagebrush and scattering cedars, ascending.
40.00	Set a sandstone, 30x14x10 ins., 23 ins. in the ground for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, and U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Cor. located 3 chs. W. of ravine, drains E. Pits impracticable.
65.00	Road bears E. and W.
69.50	Enter scrub cedars.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

- 80.00 Set a sandstone, 30x14x12 ins., 23 ins. in the ground, for the 26th mile cor., marked 26 M. on S. face, P L on E. face, and U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
 Pits impracticable.
 Land mountainous.
 Soil gravelly loam, 3d Rate.
 Timber, scattering cedars, 80.00 chs.
 Mountainous land, 80.00 chs.
-

27th Mile

- N. 18° E. on the 27th mile.
 Over mountainous land, through dense sagebrush, ascending.
- 35.00 Enter scrub cedars, bears E. and W.
- 39.90 Leave scrub cedars, bears E. and W.
- 40.00 Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., which is also an angle cor., marked $\frac{1}{2}$ M on S. face, \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
 Pits impracticable.
 Thence N. 12° 30' W.
- 21.00 Enter scrub cedars.
- 29.00 Road bears SW. and NE.
- 40.00 Set a sandstone, 29x16x12 ins., 21 ins. in the ground, for the 27th mile cor., which is also an angle cor., marked 27 M on S. face, \angle U I R on W. face, and P L on E. face, from which,
 A cedar, 6 ins. diam., bears N. 81° E., 27 lks.
 dist., marked 27 M \angle P L B T.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	No other bearing trees in limits, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Land mountainous.
	Soil gravelly loam, 3d rate.
	Timber, scrub cedar, 28.90 chs.
	Mountainous land, 80.00 chs.

August 28, 1903.

28th Mile

August 29, 1903, at 8 h., 00 m., a. m., l. m. t., I set off $9^{\circ} 40'$ N. on the decl. arc, $40^{\circ} 28'$ N. on the lat. arc, and determined a meridian with the solar, at the 27th mile cor.

Thence N. 31° E.,

On the 28th mile, over mountainous land, through dense cedars, descending.

18.93 Head of draw, drains W. Ascend.

28.92 Head of draw, drains SW. Leave dense cedars, enter scattering cedars.

40.00 Set a sandstone, $29 \times 24 \times 10$ ins., 22 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2} M$ on S. face, U I R on W. face, from which

A cedar, 6 ins. diam., bears N. 55° W., 8 lks. dist., marked $\frac{1}{2} M U I R B T$.

A cedar, 6 ins. diam., bears S. 45° E., 5 lks. dist., marked $\frac{1}{2} M P L B T$.

No other bearing trees within limits, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor. Pits impracticable.

44.50 Road bears E. and W. Descend.

47.10 Head of draw, drains E.

59.75 Road bears W. and NE.

60.00 Set a sandstone, $24 \times 12 \times 10$ ins., 18 ins. in the ground,

EAST BOUNDARY OF UMETAH INDIAN RESERVATION, Cont'd.

CHALES

for an angle cor., marked \angle U I R on W. face, from which A cedar, 6 ins. diam., bears S. $52^\circ 35'$ W., 1.03 chs., dist., marked \angle U I R B T.

A cedar, 6 ins. diam., bears N. 61° W., 50 lks. dist., marked \angle U I R B T.

No other bearing trees within limits, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor.

Thence N. $55^\circ 45'$ E.-----

Ascending.

20.00 Set a sandstone, 24x12x10 ins., 18 ins. in the ground, for the 28th mile cor., marked 28 M on SW. face, U I R on NW. face, and P. L on S.E. face, from which;

A cedar, 8 ins. diam., bears S. 35° W., 10 lks. dist., marked 28 M P L B T

A cedar, 6 ins. diam., bears N. 70° E., 50 lks. dist., marked 28 M P L B T.

A cedar, 8 ins. diam., bears N. 50° W., 15 lks. dist., marked 28 M U I R B T.

A cedar, 6 ins. diam., bears N. 10° W., 42 lks. dist., marked 28 M U I R B T.

Land mountainous.

Soil, gravelly loam, 3d rate.

Timber, dense and scattering cedars, 80.00 chs.

Mountainous land, 80.00 chs.

29th Mile

N. $55^\circ 45'$ E., on 29th mile, over mountainous land, through scattering cedars, descending.

3.32 Road, bears NE. and SW.

8.82 Same road bears SW. and NE.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
11.00	Head of draw, drains SW., ascend.
17.80	Set a sandstone, 24x12x12 ins., 18 ins. in the ground, for an angle cor., marked \angle U I R on NW. face, from which A cedar, 12 ins. diam., bears N. 80° W., 20 lks. dist., marked \angle U I R B T. A cedar, 12 ins. diam., bears S. 40° E., 23 lks. dist., marked \angle P L B T. No other bearing trees within limits, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor. Pits impracticable. Thence N. $19^\circ 15'$ E.
2.20	Head of draw, drains SW., ascend.
16.00	Road bears NW., and SE.
22.00	Road bears SE., and NW.
22.20	Set a sandstone, 20x14x12 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, from which A cedar, 6 ins. diam., bears N. 18° E., 21 lks. dist., marked $\frac{1}{2}$ M U I R B T. A cedar, 6 ins. diam., bears S. 15° E., 19 lks. dist., marked $\frac{1}{2}$ M P L B T. No other bearing trees within limits, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor. Pits impracticable.
31.70	Road bears SW. and NE.
62.20	Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for the 29th mile cor., marked 29 M on S. face, U I R on W. face, and P L on E. face, from which A cedar, 8 ins. diam., bears S. 62° E., 14 lks. dist., marked 29 M P L B T. A cedar, 14 ins. diam., bears N. 86° W., 48 lks. dist., marked 29 M U I R B T

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	No other bearing trees in limits, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. Land mountainous. Soil, gravelly loam, 3d rate. Timber, scattering cedars, 80.00 chs. Mountainous land, 80.00 chs.
	----- 30th Mile.
	N. 19° 15' E. on the 30th mile, over mountainous land, through scattering cedars, ascending.
16.20	Set a sandstone, 22x14x10 ins., 16 ins. in the ground, for an angle cor., marked \angle U I R on W. face, from which A cedar, 6 ins. diam., bears S. 31° E., 19 lks. dist., marked \angle P L B T. A cedar, 12 ins. diam., bears N. 61° W., 31 lks. dist., marked \angle U I R B T. Thence N. 24° E.
12.00	Head of deep wash, drains SW.
23.80	Set a sandstone, 26x12x10 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, from which, A cedar, 10 ins. diam., bears S. 85° E., 17 lks. dist., marked $\frac{1}{2}$ M P L B T. A cedar, 14 ins. diam., bears due west, 24 lks. dist., marked $\frac{1}{2}$ M U I R B T. No other bearing trees within limits, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
54.00	Continue abrupt ascent.
63.80	Set a sandstone, 20x16x14 ins., 15 ins. in the ground, for the 30th mile cor., which is also an angle cor., marked 30 M on S. face, \angle U I R on NW face, and P L on SE. face, from which, A cedar, 6 ins. diam., bears S. 20° W., 17 lks. dist., marked 30 M \angle P L B T. A cedar, 6 ins. diam., bears S. 80° E., 27 lks.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	dist., marked 30 M P L B T.
	A cedar, 8 ins. diam., bears S. 30° W., 15 lks.
	dist., marked 30 M U I R B T.
	A cedar, 6 ins. diam., bears N. 56° W., 60 lks.
	dist., marked 30 M U I R B T.
	Land mountainous.
	Soil, gravelly loam, 3d rate.
	Timber, scattering cedars, 80.00 chs.
	Mountainous land, 80.00 chs.
	August 29, 1903, at 12 h., 00 m., noon, l. m. t., I set off $9^{\circ} 36'$ N. on the declination arc, and observed the sun on the meridian at the 30th mile cor. The resultant latitude is $40^{\circ} 30'$ N.

	31st Mile.
	The 31st Mile cor. being visible from the 30th mile cor., I run,
	N. $83^{\circ} 36'$ W.,
	on the 31st mile, over mountainous land, through scattering cedars, descending.
40.00	Set a sandstone, 24x12x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E. face, U I R on S. face, from which,

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	A cedar, 16 ins. diam., bears North, 1 ch. dist., marked $\frac{1}{2}$ M P L B T.
	A cedar, 14 ins. diam., bears N. 24° E., 50 lks. dist., marked $\frac{1}{2}$ M P L B T.
	A cedar, 10 ins. diam., bears South, 25 lks. dist., marked, $\frac{1}{2}$ M U I R B T.
	A cedar, 10 ins. diam., bears S. 20° W., 20 lks. dist., marked $\frac{1}{2}$ M U I R B T.
110.00	Road bears NE. and SW.
158.00	Top of ridge, sloping S.
164.00	Bottom of draw, drains South. Ascend.
182.00	Top of ridge, sloping S. Descend.
186.00	Bottom of draw, drains S. Ascend.
197.00	Top of ridge, sloping S. Descend.
209.00	Bottom of draw, drains S. Ascend.
224.48	Intersect the 31st mile cor., which is a sandstone, 12x9x10 ins., above ground, having the appearance of being part of the original corner. However, the mark 31 M is distinctly visable. A mound of stone was found alongside, but old bearing trees were not found.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	<p>I re-establish corner at this point, by setting a sandstone, 24x9x9 ins., 18 ins. in the ground, for the 31st mile cor., marked 31 M on E., U I R on W., and P L on N. faces, from which;</p> <p>A cedar, 8 ins. diam., bears S. 89° E., 40 lks. dist., marked 31 M P L B T.</p> <p>A cedar, 10 ins. diam., bears S. 51° W., 11 lks. dist., marked 31 M U I R B T.</p> <p>No other bearing trees in limits, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.</p> <p>Land mountainous.</p> <p>Soil, gravelly loam, 3d rate.</p> <p>Timber, dense cedars, 224.48 chs.</p> <p>Mountainous and heavily timbered land, 224.48 chs.</p>
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August 29, 1903.

- To locate old 37th mile cor., I retraced the boundary line as previously established between the 31st and 37th mile cor., as follows:
- N. 10° W. on 32d mile.
- 19.00 No angle cor. found here, nor any trace thereof.
Thence N. 22° E.
- 61.10 Find the old 32d mile cor., lying loose upon the ground, having sufficient marks to identify same.
Thence N. 22° E. on 33d mile.
- 40.00 No trace of old angle cor. can be found.
Thence N. 55° W.
- 40.00 The 33d mile cor. cannot be found, but its position is identified by old bearing trees, with marks partly obliterated.
Thence N. 70° W. on the 34th mile.
- 91.00 No trace of old 34th mile cor. can be found.
Thence N. 83° W. on the 35th mile.
- 80.00 No trace of old 35th mile cor. can be found.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	Thence N. 76° W. on 36th mile.
80.00	No trace of old 36th mile cor. can be found.
	Thence N. 76° W. on 37th mile.
80.16	Evidences of old 37th mile cor. at this point. Proof of its being the old cor. point is definitely confirmed by the old bearing tree, which has its marks partially obliterated, but sufficiently plain to identify same. Knowing that the subdivision work must be closed on this line, I go back to the 31st mile cor., and re-survey the boundary between the 31st and 37th mile cors., locating permanent cors. at the angle, $1/2$ mile, and mile cors., placing the cors. at their proportionate distances, as follows:
	August 30, 1903.

	August 31, 1903, at 8 h., 00 m., a.m., l.m.t., I set off $8^{\circ} 57'$ N. on the decl. arc; $40^{\circ} 31'$ N. on the lat. arc, and determined a meridian with the solar, at the 31st mile cor.
	Thence I run, N. 10° W., on the 32d mile, over mountainous land, covered with dense sage-brush, and scattering cedars. Ascending.
17.60	Top of ridge, 100 ft. high, bears E. and W.
19.02	Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Deep Creek located 120 lks. W. of cor.
	Thence N. 22° E.
21.03	Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for $1/2$ mile cor., marked $1/2$ M on S., and U I R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Cor. located on E. bank of Deep Creek.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
61.08	Intersect the old 32d mile cor. I re-establish same, setting a sandstone, 24x10x8 ins., 18 ins. in the ground, for 32d mile cor., marked 32 M on S., U.I.R on W., and T S S.R 19 E on E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Land mountainous.
	Soil, gravelly loam, 3d rate.
	Timber, scattering cedars.
	Undergrowth, sage-brush, 80.10 chs.
	Mountainous land, or land covered with dense undergrowth, 80.10 chs.

	33d Mile.
	N. 22° E., on 33d mile, over rolling land, covered with dense sage-brush and scattering cedars, descending.
2.10	Deep Creek, 15 lks. wide, 6 ins. deep, drains S.W.
40.00	Set a sandstone, 20x12x8 ins., 15 ins. in the ground, for 1/2 mile cor., which is also an angle cor., marked 1/2 M on S. face, \angle U.I.R on W. face, from which;
	A cedar, 10 ins. diam., bears N. 75° E., 29 lks. dist., marked \angle T 3 S R 19 E S 27 1/2 M B T.
	A cedar, 12 ins. diam., bears S. 40° W., 45 lks. dist., marked \angle 1/2 M U I R B T.
	A cedar, 8 ins. diam., bears N. 58° W., 68 lks. dist., marked \angle 1/2 M U I R B T.
	A cedar, 6 ins. diam., bears S. 68° W., 65 lks. dist., marked \angle 1/2 M U I R B T.
	Thence N. 55° W.
30.23	Dry gulch, drains S.W., ascend.
40.00	Set a sandstone, 27x16x12 ins. 21 ins. in ground for re-established 33d mi. cor., which is also an angle cor., marked 33 M on S.E. \angle U I R on S.W., and T 3 S R 19 E on N.E. faces, I find old bearing trees as follows:
	A cedar, 16 ins. diam., bears N. 34° W., 64 lks.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	<p>dist., re-marked same \angle T 3 S R 19 E S 27 33 M B T A cedar, 12 ins. diam., bears N. $63^{\circ} 30'$ E., 222 lks.</p> <p>dist., re-marked same, \angle T 3 S R 19 E S 27 33 M B T A cedar, 13 ins. diam., bears S. 64° E., 227 lks.</p> <p>dist., re-marked same \angle T 3 S R 19 E S 27 33 M B T No other bearing trees in limits, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.</p> <p>Land rolling.</p> <p>Soil, gravelly loam, 3d rate.</p> <p>Timber, scattering cedars.</p> <p>Undergrowth, sage-brush.</p> <p>Mountainous land, or land covered with dense undergrowth 80.00 chs.</p> <hr/> <p style="text-align: center;">34th Mile</p> <p>August 31st; at 12 h., 00 m., noon, l.m.t., sky overcast. Solar observations impossible.</p> <p>N. 70° W. on 34th mile, over rolling land, through scattering cedars.</p> <p>34.23 Road, bears S.W. and N.E. Leave cedars.</p> <p>40.02 Set a sandstone, 20x12x8 ins., 15 ins. in the ground, for 1/2 mile cor., marked 1/2 M on E., and U.I.R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.</p> <p>Cor. Located 150 lks. N. of log cabin.</p> <p>80.04 Set a sandstone, 24x10x8 ins. 18 ins. in ground, for reestab- lished 34mi.cor. which is also an angle cor., marked 34 M. on E., \angle U I R on S., and T 3 S R 19 E on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.</p>
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EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	Pits impracticable.
	Land mountainous and rolling.
	Soil gravelly, 3d rate.
	Timber, scattering cedars.
	Undergrowth, dense sage-brush.
	Mountainous land, or land covered with dense undergrowth, 80.04 chs.

	35th Mile
	N. 83° W., on 35th Mile, over mountainous land, covered with dense sage-brush and scattering cedars.
10.87	Dry gulch, drains S.
29.04	Road, bears NE. and SW.
40.02	Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., and U I R on S. face. from which
	A cedar, 8 ins. diam., bears N 42° W., 82 lks. dist., marked, T 3 S R 19 E S 20 $\frac{1}{2}$ M B T.
	A cedar, 10 ins. diam., bears N. 57° E., 171 lks. dist., marked, T 3 S R 19 E S 20 $\frac{1}{2}$ M B T
	Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
	No cedars within limits S. of cor.
47.00	Leave cedars.
47.52	Road bears SE. and NW.
80.04	Set a sandstone, 27x12x7 ins. 21 ins. in ground for rees- tablished 35th mi. cor., which is also an angle cor. marked 35 M on E., and U I R on S. face, T 3 S R 19 E on N. face.

EAST BOUDDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

And raise a mound of stone, 3 ft. base, 2 ft. high,
S. of cor.

Pits impracticable.

Land mountainous.

Soil gravelly loam, 3d rate.

Timber, scattering cedars.

Undergrowth, sage-brush.

Mountainous land, or land covered with dense under-growth, 80.04 chs.

August 31, 1903.

36th mile.

Sept. 1, 1903, at 8 h., 00 m., a. m., l. m. t., I set off $8^{\circ} 35'$ N. on the decl. arc, $40^{\circ} 33'$ N. on the lat. arc, and determined a meridian with the solar altitude 35th mile cor.

Thence I run

N. 76° W., on the 36th mile, over mountainous land, covered with dense sage-brush, ascending.

40.02 Set a sandstone, 28x12x9 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E. face, U.I.R. on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

44.00 Descend.

66.15 Dry gulch, drains NE.

80.04 Set a sandstone, 24x10x8 ins. 18 ins. in ground, for reestab-

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	Established 36th mi. cor., marked 36 M on E. face; U I R on S., and \angle T 3 S R 19 E on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Land mountainous. Soil gravelly loam, 3d rate.
	No timber.
	Undergrowth, sage-brush.
	Mountainous land, or land covered with dense undergrowth, 80.04 chs.
----- 37th Mile -----	
	N. 76° W., on 37th mile, over mountainous land, covered with dense sage-brush.
29.38	Dry gulch, drains SE.
40.02	Set a sandstone, 28x12x8 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked, $\frac{1}{2}$ M on E. face, U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
52.50	Dry gulch, drains N.W.
65.23	Dry gulch, drains N.W.
80.04	Set a sandstone, 30x14x10 ins. 23 ins. in ground for re-established 37th mi. cor., which is also an angle cor., marked 37 M on E., \angle U I R on S., and U F R on N. face, I find old bearing tree as follows: A cedar, 10 ins. in diam., bears N. 46° W., 56 lks. dist. Re-marked same, 37 M, \angle U F R B T. No other bearing trees within limits, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

Pits impracticable.

Land mountainous.

Soil gravelly loam, 3d rate.

No timber.

Undergrowth, sage-brush.

Mountainous land, or land covered with dense sage-brush, 80.04 chs.

September 1, at 12 h., 00 m., noon, l. m. t., I set off $8^{\circ} 31'$ N. on the decl. arc, and observed the sun on the meridian, resultant lat. is $40^{\circ} 33'$ N.

September 1, 1903.

38th Mile.

September 2d, at 8 h., 00 m., a. m., l. m. t., I set off $8^{\circ} 14'$ N. on the decl. arc, and $40^{\circ} 33'$ N. on the lat. arc, and determined a meridian with the solar, at the 37th mile cor. Thence N. 72° W.

on the 38th mile, running for the divide which forms the water-shed of Uintah River on the west and Ashley Creek on the east, over mountainous land covered with dense sage-brush, descending.

17.15 Dry gulch, drains S. Ascend.

31.00 Top of rocky ridge, bears N. and S.

40.00 Set a sandstone, $26 \times 14 \times 10$ ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E. face, U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Descend abruptly.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
53.85	Bottom of gulch, drains S. Thence over rolling land.
65.00	Draw, drains S.
67.00	Ascend.
80.00	Set a sandstone, 30x14x10 ins., 22 ins. in the ground, for 38th mile cor., marked 38 M on E. face, U I R on S. face, U F R on N. face, and raise a mound of stone, 3 ft. base, 12 ft. high S. of cor. Pits impracticable.
	Cor. located on spur of main divide, projects SW. Land rolling and mountainous.
	No timber.
	Soil gravelly loam, 3d rate.
80.00	Mountainous land, or land covered with dense sage-brush, chs.
	Sept. 2, 1903, 12 h., 00 m., noon, l. m. t., I set off $8^{\circ} 09' N$ on the decl. arc at this cor., and observe the sun on the meridian. The resulting latitude is $40^{\circ} 33' N$.
<hr/>	
	39th Mile
	N. 72° W. on 39th mile, over mountainous land, covered with dense sage-brush, descending.
6.00	Dry creek bed, 4 lks. wide, drains S.
40.00	Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E. face, U I R on S. face, and raise a mound of stone, 3 ft. base, 12 ft. high, S. of cor. Pits impracticable.
74.10	Spring branch, 6 lks. wide, drains S.
80.00	Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for 39th mile cor., which is also an angle cor., marked 39 M on E. face, \angle U I R on SW. face, and U F R on NE. face, and raise a mound of stone, 3 ft. base, 12 ft. high, S. of cor.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	Pits impracticable.
	Land mountainous.
	Soil gravelly loam, 3d rate.
	No timber.
	Mountainous land, and dense sage-brush, 80.00 chs.

	40th Mile.
	N. 19° 30' E. on 40th mile, over mountainous land, covered with dense sage-brush, ascending.
40.00	Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Pits impracticable.
80.00	Set a sandstone, 32x16x14 ins., 24 ins. in the ground, for the 40th mile cor., marked 40 M on S face, U I R on W. face, U F R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Pits impracticable.
	Land mountainous.
	Soil gravelly loam, 3d rate.
	No timber.
	Mountainous land and dense sage-brush, 80.00 chs.

	41st Mile.
	N. 19° 30' E., on 41st mile, over mountainous land, through dense sage, and scattering oak brush.
19.70	Set a sandstone, 24x14x10 ins., 18 ins. in the ground, for an angle cor., marked, \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Pits impracticable.
	Thence N. 3° E.
16.30	Set a sandstone, 30x14x8 ins., 22 ins. in the ground, for an angle cor., marked \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor..

(21) (21)

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	Pits impracticable.
	Cor. located on top of main divide, between Ashley Creek on the East, and Uintah River on the West.
	Thence along dividing ridge to N.E. cor. of reservation.
	Thence N. 17° W.
4.00	Set a sandstone, 28x10x11 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Pits impracticable.
22.00	Enter aspen grove, bears E. and W.
31.00	Leave aspen grove, bears E. and W.
41.00	Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for an angle cor., marked U I R on W. face, and raise a mound of stone, 3 ft. base, 12 ft. high, W. of cor.
	Pits impracticable.
	Thence N. 42° 30' E.
3.00	Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for the 41st mile cor., marked 41 M. on SW. face, U I R on NW. face, and U F R on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor.
	Pits impracticable.
	Land mountainous.
	Soil gravelly loam, 3d rate.
	Timber, aspen 9.00 chs.
	Mountainous land, 80.00 chs.

September 2, 1903.

42d Mile

N. 42° 30' E. on 42d mile, over mountainous land, covered with dense undergrowth.

5.00	Enter dense aspen timber, bears NW. and SE.
40.00	Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on SW., and U I R on NW. face, from which,
	An aspen, 12 ins. diam., bears N. 45° W., 12 lks.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

- | CHAINS | |
|--------|--|
| | dist., marked $\frac{1}{2}$ M U I R B T.
An aspen, 8 ins. diam., bears N. 45° E., 9 lks.
dist., marked $\frac{1}{2}$ M U F R B T.
An aspen, 7 ins. diam., bears S. 45° W., 30 lks.,
dist., marked $\frac{1}{2}$ M U I R B T.
An aspen, 6 ins. diam., bears S. 45° E., 18 lks.,
dist., marked $\frac{1}{2}$ M U F R B T. |
| 45.00 | Leave timber. |
| 49.30 | Set a sandstone, 26x14x8 ins., 19 ins. in the ground,
for an angle cor., marked \angle U I R on NW. face, and raise
a mound of stone, 3 ft. base, 2 ft. high, NW. of cor.
Pits impracticable.
Thence N. 27° W. |
| 5.00 | Enter aspen timber, bears E. and W. |
| 9.80 | Set a sandstone, 26x12x7 ins., 19 ins. in the ground,
for an angle cor., marked, \angle U I R on W. face, from which
An aspen, 6 ins. diam., bears E. 8 lks. dist.,
marked \angle U F R B T.
An aspen, 8 ins. diam., bears S. 45° E., 16 lks.,
dist., marked \angle U F R B T.
An aspen, 5 ins. diam., bears N. 45° W., 10 lks.,
dist., marked \angle U F R B T.
An aspen, 6 ins. diam., bears West 16 lks., dist.,
marked \angle U I R B T.
Thence N. $48^\circ 45'$ W. |
| 7.40 | Set a sandstone, 24x12x6 ins., 18 ins. in the ground,
for an angle cor., marked \angle U I R on SW. face, from
which,
An aspen, 6 ins. diam., bears S. 65° E., 36 lks.
dist., marked, \angle U F R B T
An aspen, 8 ins. diam., bears S. 18° W., 33 lks.
dist., marked, \angle U I R B T.
An aspen, 7 ins. diam., bears N. 56° W., 34 lks. |

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	dist., marked \angle U I R B T.
	An aspen, 8 ins. diam., bears N. 24° E., 41 lks.
	dist., marked \angle U F R B T.
	Thence N. $6^{\circ} 30'$ W.
2.50	Enter scattering pines.
7.60	Set a sandstone, 26x14x10 ins., 19 ins. in the ground, for an angle cor., marked \angle U I R on W. face, from which A pine, 8 ins. diam., bears S. 25° E., 36 lks.
	dist., marked \angle U F R B T.
	A pine, 4 ins. diam., bears N. 10° W., 20 lks.
	dist., marked \angle U I R B T.
	A pine, 6 ins. diam., bears S. 20° W., 25 lks. dist., marked \angle U I R B T.
	A pine, 6 ins. diam., bears East, 20 lks. dist., marked \angle U F R B T.
	Thence N. $4^{\circ} 45'$ E.
1.00	Leave timber. Enter dead fallen timber.
5.90	Set a sandstone, 26x12x9 ins., 19 ins. in the ground, for the 42d mile cor., which is also an angle cor., marked, 42 M on S. face, \angle U I R on W. face, and U F R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Pits impracticable.
	Land mountainous.
	Soil gravelly loam, 3d rate.
	Timber, pine and aspens.
	Mountainous land, 80.00 chs.

	43d Mile
	N, $32^{\circ} 15'$ W., on 43d mile, over mountainous land, ascending.
12.00	Enter aspen grove, bears E. and W.
26.00	Set a sandstone, 24x12x6 ins., 18 ins. in the ground, for

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	<p>an angle cor., marked \angle U I R on W. face, from which An aspen, 9 ins. diam., bears N. 88° E., 6 lks. dist., marked \angle U F R B T.</p> <p>An aspen, 6 ins. diam., bears N. 55° E., 75 lks. dist., marked \angle U F R B T.</p> <p>An aspen, 8 ins. diam., bears S. 40° W., 8 lks. dist., marked \angle U I R B T.</p> <p>An aspen, 7 ins. diam., bears S. 28° E., 118 lks. dist., marked \angle U I R B T.</p> <p>Thence N. $71^\circ 15'$ W.</p>
14.00	<p>Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E. face, from which An aspen, 9 ins. diam., bears S. 75° W., 21 lks. dist., marked $\frac{1}{2}$ M U I R B T.</p> <p>An aspen, 8 ins. diam., bears N. 87° W., 21 lks. dist., marked $\frac{1}{2}$ M U I R B T.</p> <p>An aspen, 7 ins. diam., bears N. 78° E., 36 lks. dist., marked $\frac{1}{2}$ M U F R B T.</p> <p>An aspen, 9 ins. diam., bears N. 68° W., 18 lks. dist., marked $\frac{1}{2}$ M U F R B T.</p>
38.30	<p>Set a sandstone, 24x12x9 ins., 18 ins. in the ground, for an angle cor., marked \angle U I R on S. face, from which, A pine, 7 ins. diam., bears N. 33° E., 45 lks. dist., marked \angle U F R B T.</p> <p>A pine, 8 ins. diam., bears East 75 lks., dist., marked \angle U F R B T.</p> <p>A pine, 6 ins. diam., bears S. 10° E., 18 lks. dist., marked \angle U I R B T.</p> <p>A pine, 8 ins. diam., bears N. 20° W., 21 lks. dist., marked \angle U I R B T.</p> <p>Thence N. $12^\circ 45'$ W.</p>
9.90	<p>Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for an angle cor., marked \angle U I R on W. face, from which</p>

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
5.70	A pine, 16 ins. diam., bears S. 16° E., 82 lks. dist., marked \angle U F R B T.
	A pine, 14 ins. diam., bears N. 10° W., 29 lks. dist., marked \angle U F R B T.
	A pine, 22 ins. diam., bears S. 18° W., 76 lks. dist., marked \angle U I R B T.
	A pine, 12 ins. diam., bears N. 78° E., 78 lks. dist., marked \angle U F R B T.
	Thence N. $18^{\circ} 45'$ W.
5.80	Set a sandstone, 28x16x7 ins., 21 ins. in the ground, for the 43d mile cor., which is also an angle cor., marked 43 M on S. face, \angle U I R on W. face, and U F R on N. face, from which
	A pine, 8 ins. diam., bears S. 7° E., 20 lks. dist., marked 43 M \angle U I R B T.
	A pine, 10 ins. diam., bears N. 68° W., 15 lks. dist., marked 43 M \angle U I R B T.
	A pine, 8 ins. diam., bears N. 73° E., 28 lks. dist., marked 43 M \angle U F R B T.
	A pine, 8 ins. diam., bears N. 34° E., 17 lks. dist., marked 43 M \angle U F R B T.
	Land mountainous.
	Soil, gravelly loam, 3d rate.
	Timber, pine and aspen.
	Mountainous land, 80.00 chs.

	44th mile.
	N. $64^{\circ} 15'$ W., on the 44th mile, over mountainous land.
3.10	Set a sandstone, 24x10x9 ins., 18 ins. in the ground, for an angle cor., marked \angle U I R on SW. face, from which
	A pine, 24 ins. diam., bears N. 38° W., 8 lks. dist., marked \angle U F R B T.
	A pine, 12 ins. diam., bears N. 22° E., 30 lks. dist., marked \angle U F R B T.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

A pine, 26 ins. diam., bears N. 75° W., 85 lks. dist., marked \angle U I R B T.

A pine, 18 ins. diam., bears N. 65° E., 75 lks. dist., marked \angle U F R B T.

Thence N. $65^{\circ} 45'$ W. Descending.

27.00 Head of draw, drains S. Ascend.

36.90 Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on SE., and U.I.R on SW. face, from which

A pine, 14 ins. diam., bears N. 60° W., 13 lks. dist., marked $\frac{1}{2}$ M U F R B T.

A pine, 10 ins. diam., bears N. 10° W., 17 lks. dist., marked $\frac{1}{2}$ M U F R B T.

A pine, 10 ins. diam., bears S. 10° E., 27 lks. dist., marked $\frac{1}{2}$ M U I R B T.

A pine, 8 ins. diam., bears S. 78° E., 31 lks. dist., marked $\frac{1}{2}$ M U F R B T.

68.00 Leave timber, enter dense sagebrush.

74.50 Enter scattering pine timber, and aspen timber.

76.90 Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for the 44th mile cor., which is also an angle cor., marked 44 M on SE. face, \angle U I R on SW. face, and U F R on NE. face, from which,

A pine, 10 ins. diam., bears S. 88° E., 63 lks. dist., marked 44 M \angle U F R B T.

A pine, 7 ins. diam., bears S. 13° E., 85 lks. dist., marked 44 M \angle U I R B T.

An aspen, 7 ins. diam., bears South, 75 lks. dist., marked 44 M \angle U I R B T.

An aspen, 5 ins. diam., bears N. 65° E., 95 lks. dist., marked 44 M \angle U F R B T.

Land mountainous.

Soil gravelly loam, 3d rate.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	Timber, pine and aspen.
	Mountainous land, 80.00 chs.
	----- 45th Mile
	N. 55° 15' W., on 45th mile, over mountainous land. Ascend.
15.40	Set a sandstone, 30x12x6 ins., 22 ins. in the ground, for an angle cor., marked \angle U I R on SW. face, from which An aspen, 7 ins. diam., bears N. 8° E., 25 lks. dist., marked \angle U I R B T. An aspen, 6 ins. diam., bears N. 28° W., 27 lks. dist., marked \angle -U-I-R-B-T. An aspen, 6 ins. diam., bears S. 89° E., 16 lks. dist., marked \angle U F R B T. An aspen, 7 ins. diam., bears N. 68° W., 31 lks. dist., marked \angle U I R B T. Thence N. 40° 45' E.
24.60	Point for $\frac{1}{2}$ mile cor. falls on large boulder, 7x5x2 ft. above ground. Marked a cross (X) at the exact cor. point, $\frac{1}{2}$ M SW. of cross, U I R NW. of cross, from which A pine, 6 ins. diam., bears N. 10° 30' W., 24 lks. dist., marked $\frac{1}{2}$ M U I R B T. A pine, 8 ins. diam., bears S. 88° E., 16 lks. dist., marked $\frac{1}{2}$ M U F R B T. A pine, 7 ins. diam., bears N. 12° W., 25 lks. dist., marked $\frac{1}{2}$ M U I R B T. A pine, 10 ins. diam., bears N. 71° E., 54 lks. dist., marked $\frac{1}{2}$ M U F R B T.
64.60	Set a sandstone, 24x12x7 ins., 18 ins. in the ground, for 45th mile cor., marked 45 M on SW. face, U I R on NW. face, and U F R on SE. face, from which A pine, 6 ins. diam., bears N. 28° E., 3 lks. dist., marked 45 M U I R B T. A pine, 7 ins. diam., bears S. 40° E., 3 lks. dist., marked 45 M U F R B T.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	A pine, 8 ins. diam., bears N. 40° W., 17 lks. dist., marked U I R 45 M B T.
	A pine, 9 ins.-diam., bears S. 40° W., 20 lks. dist., marked 45 M U F R B T.
	Land mountainous.
	Soil gravelly loam, 3d. rate.
	Timber, pine and aspen.
	Mountainous land, 80.00 chs.
	Sky overcast all day, solar observations impossible.
	September 3, 1903.

	46th Mile
	N. $40^{\circ} 45'$ E., on the 46th mile, over mountainous land, through dense timber, descending.
27.50	Head of draw, drains E. Ascend.
30.00	Enter burnt timber. Leave live timber?
40.00	Set a sandstone, 26x20x10 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on SW. face, U I R on NW. face, and raise a mound of stone, 3 ft. base, .2 ft. high, NW. of cor.
50.00	Enter dense pine timber, bears E. and W. Leave burnt timber.
65.00	Set a sandstone, 24x16x7 ins., 24 ins. in the ground, for an angle cor., marked \angle U I R on W. face, from which A pine, 7 ins. diam., bears N. 79° E., 22 lks. dist., marked \angle U F R B T.
	A pine, 6 ins. diam., bears S. 42° W., 10 lks. dist., marked \angle U I R B T.
	A pine, 8 ins. diam., bears S. 6° E., 30 lks. dist., marked \angle U F R B T.
	A pine, 8 ins. diam., bears N. 14° W., 34 lks. dist., marked \angle U F R B T.
	Thence N. $24^{\circ} 15'$ W.
15.00	Set a sandstone, 27x16x8 ins., 21 ins. in the ground,

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

for 46th mile cor., marked 46 M on S. face, U I R on W. face, and U F R on E. face, from which,

A pine, 7 ins. diam., bears S. 7° E., 100 lks.
dist., marked 46 M U I R B T.

A pine, 9 ins. diam., bears S. 11° E., 85 lks.
dist., marked 46 M U I R B T.

A pine, 6 ins. diam., bears N. 74° E., 11 lks.
dist., marked 46 M U F R B T.

A pine, 10 ins. diam., bears S. 68° E., 66 lks.
dist., marked 46 M U F R B T.

Land mountainous.

Soil gravelly and rocky, 3d and 4th rate.

Timber, pine.

Mountainous land, 80.00 chs.

47th Mile

N. $24^{\circ} 15'$ W., on the 47th mile, over mountainous land, through dense pine timber.

20.00 Leave timber, bears E. and W.

40.00 Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face and of raised, a mound of stone 3 ft. base. 2 ft. high W. of cor.

Pits impracticable.

69.00 Enter dense pine timber, bears E. and W.

80.00 Set a sandstone, 26x10x8 ins. ^{19 ins. in the ground.} /For 47th mile cor., marked 47 M on S. face, U I R on W. face, and U F R on E. face, from which

A pine, 14 ins. diam., bears S. 62° E., 25 lks.
dist., marked 47 M U F R B T.

A pine, 16 ins. diam., bears S. 8° E., 35 lks.
dist., marked 47 M U I R B T.

A pine, 12 ins. diam., bears N. 10° W., 28 lks.
dist., marked 47 M U F R B T.

A pine, 12 ins. diam., bears N. 83° W., 30 lks.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

dist., marked 47 M U I R B T.

Land mountainous.

Soil gravelly loam, 3d rate.

Timber, dense pine.

Mountainous land, 80.00 chs.

48th Mile.

N. $24^{\circ} 15'$ W., on the 48th mile, over mountainous land, through dense pine timber. Gradually ascending.

40.00 Set a sandstone, 26x14x7 ins., 19.ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, from which

A pine, 16 ins. diam., bears N. 54° E., 45 lks. dist., marked $\frac{1}{2}$ M U F R B T.

A pine, 14 ins. diam., bears S. 75° E., 37 lks. dist., marked $\frac{1}{2}$ M U F R B T.

A pine, 8 ins. diam., bears S. 32° W., 37 lks. dist., marked $\frac{1}{2}$ M U I R B T.

A pine, 16 ins. diam., bears N. 55° W., 14 lks. dist., marked $\frac{1}{2}$ M U I R B T.

54.00 Set a sandstone, 26x10x7 ins., 19 ins. in the ground, for an angle cor., marked \angle U I R on W. face, from which

A pine, 10 ins. diam., bears N. 48° W., 15 lks. dist., marked \angle U I R B T.

A pine, 8 ins. diam., bears N. 17° E., 40 lks. dist., marked \angle U I R B T.

A pine, 16 ins. diam., bears N. 88° E., 12 lks. dist., marked \angle U F R B T.

A pine, 10 ins. diam., bears S. 76° E., 35 lks. dist., marked \angle U F R B T.

Thence N. $27^{\circ} 45'$ E.

16.00 Set a sandstone, 26x14x8 ins., 19 ins. in the ground, for an angle cor., marked \angle U I R on W. face, from which

A pine, 8 ins. diam., bears N. 47° W., 20 lks.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION; Cont'd.

CHAINS

dist., marked \angle U I R B T.

A pine, 9 ins. diam., bears S. 71° E., 11 lks.

dist., marked \angle U F R B T.

A pine, 10 ins. diam., bears S. 11° W., 15 lks.

dist., marked \angle U F R B T.

A pine, 10 ins. diam., bears S. 45° W., 54 lks.

dist., marked \angle U I R B T.

Thence N. $39^\circ 15'$ W.

10.00 Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for the 48th mile cor., marked 48 M on SE. face, U I R on SW. face, and U F R on NE. face, from which

A pine, 16 ins. diam., bears S. 19° E., 15 lks.

dist., marked 48 M U I R B T.

A pine, 16 ins. diam., bears N. 15° W., 16 lks.

dist., marked 48 M U F R B T.

A pine, 14 ins. diam., bears N. 20° E., 17 lks.

dist., marked 48 M U F R B T.

A pine, 12 ins. diam., bears N. 62° W., 25 lks.

dist., marked 48 M U I R B T.

Land mountainous.

Soil, gravelly loam, 3d rate.

Timber, dense pine.

Mountainous land, 80.00 chs.

49th Mile.

N. $39^\circ 15'$ W., on the 49th mile, over mountainous land, through dense pine timber, ascending.

26.00 Set a sandstone, 28x9x8 ins., 21 ins. in the ground, for an angle cor., marked \angle U I R on SW. face, from which

A pine, 14 ins. diam., bears S. 87° E., 14 lks.

dist., marked \angle U F R B T.

A pine, 12 ins. diam., bears N. 55° E., 21 lks. dist., marked \angle U F R B T.

A pine, 14 ins. diam., bears N. 31° W., 31 lks.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	dist., marked ↗ U I R B T.
	A pine, 10 ins. diam., bears S. 37° W., 23 lks. dist., marked ↗ U I R B T.
	Thence N. $0^{\circ} 15'$ E.
14.00	Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, from which
	A pine, 16 ins. diam., bears S. 8° W., 65 lks. dist., marked $\frac{1}{2}$ M U I R B T.
	A pine, 7 ins. diam., bears S. 18° W., 70 lks. dist., marked $\frac{1}{2}$ M U I R B T.
	A pine, 14 ins. diam., bears N. 61° E., 27 lks. dist., marked $\frac{1}{2}$ M U F R B T.
	A pine, 16 ins. diam., bears S. 54° E., 40 lks. dist., marked $\frac{1}{2}$ M U I R B T.
54.00	Set a sandstone, 26x10x8 ins., 19 ins. in the ground for 49th mile cor., marked 49 M on S. face, U I R on W. face, and U F R on E. face, from which,
	A pine, 12 ins. diam., bears S. 21° W., 4 lks. dist., marked, 49 M U I R B T.
	A pine, 10 ins. diam., bears S. 65° E., 46 lks. dist., marked 49 M U F R B T.
	A pine, 8 ins. diam., bears S. 58° W., 44 lks. dist., marked 49 M U I R B T.
	A pine, 18 ins. diam., bears S. 87° E., 2 lks. dist., marked 49 M U F R B T.
	Land mountainous.
	Soil, gravelly loam, 3d rate.
	Timber, dense pine.
	Mountainous land, 80.00 chs.
	Sky overcast all day, solar observations impossible.

September 4, 1903.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

50th Mile

September 5th, at 8 h., 00 m., a. m., l. m. t., I set off $40^{\circ} 41'$ N. on the lat. arc, $7^{\circ} 8'$ N. on the decl. arc, and determined a meridian with the solar, at the 49th mile cor.

Thence I run, N. $0^{\circ} 15'$ E., on the 50th mile, over mountainous land, covered with dense pine timber, descending.

40.00 Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, from which

A pine, 18 ins. diam., bears N. $66^{\circ} 30'$ W., 19 lks. dist., marked $\frac{1}{2}$ M U I R B T.

A pine, 16 ins. diam., bears S. 12° W., 42 lks. dist., marked $\frac{1}{2}$ M U I R B T.

A pine, 12 ins. diam., bears N. 58° E., 40 lks. dist., marked $\frac{1}{2}$ M U F R B T.

A pine, 8 ins. diam., bears N. $55^{\circ} 30'$ E., 57 lks. dist., marked $\frac{1}{2}$ M U F R B T.

Ascend.

60.00 Set a sandstone, 28x16x8 ins., 21 ins. in the ground, for an angle cor., marked \angle U I R on W. face, from which

A pine, 18 ins. diam., bears N. 36° E., 4 lks. dist., marked \angle U F R B T.

A pine, 8 ins. diam., bears S. 66° W., 23 lks. dist., marked \angle U I R B T.

A pine, 10 ins. diam., bears S. 78° W., 26 lks. dist., marked \angle U I R B T.

A pine, 16 ins. diam., bears S. 12° E., 52 lks. dist., marked \angle U F R B T.

Thence N. $8^{\circ} 45'$ W.

12.00 Set a sandstone, 32x10x6 ins., 24 ins. in the ground, for an angle cor., marked \angle U I R on W. face, from which

A pine, 8 ins. diam., bears N. 50° W., 17 lks.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	<p>dist., marked \angle U I R B T.</p> <p>A pine, 12 ins. diam., bears S. 74° W., 38 lks.</p> <p>dist., marked \angle U I R B T.</p> <p>A pine, 8 ins. diam., bears S. 48° E., 15 lks.</p> <p>dist., marked \angle U F R B T.</p> <p>A pine, 24 ins. diam., bears S. 63° W., 35 lks.</p> <p>dist., marked \angle U I R B T.</p> <p>Thence N. $30^\circ 45'$ W.</p>
8.00	<p>Set a sandstone, 28x14x8 ins., 21 ins. in the ground, for the 50th mile cor., marked 50 M on S. face, U I R on W. face, and U F R on E. face, from which</p> <p>A pine, 10 ins. diam., bears S. $59^\circ 30'$ W., 32 lks.</p> <p>dist., marked 50 M U I R B T.</p> <p>A pine, 12 ins. diam., bears N. 43° E. 15 lks.,</p> <p>dist., marked 50 M U F R B T.</p> <p>A pine, 12 ins. diam., bears N. 40° W., 30 lks.</p> <p>dist., marked 50 M U I R B T.</p> <p>A pine, 14 ins. diam., bears N. 33° E., 49 lks.</p> <p>dist., marked 50 M U F R B T.</p> <p>Land mountainous.</p> <p>Soil, gravelly loam, 3d rate.</p> <p>Timber, dense pine.</p> <p>Mountainous land, 80.00 chs.</p> <hr/> <p style="text-align: center;">51st Mile</p> <p>N. $30^\circ 45'$ W., on the 51st mile, over mountainous land, covered with dense pine timber, ascending.</p>
40.00	<p>Set a sandstone, 34x12x8 ins., 25 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, from which,</p> <p>A pine, 10 ins. diam., bears S. 18° W., 26 lks.</p> <p>dist., marked $\frac{1}{2}$ M U I R B T.</p> <p>A pine, 8 ins. diam., bears N. 8° W., 27 lks.</p> <p>dist., marked $\frac{1}{2}$ M U F R B T.</p>

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	A pine, 24 ins. diam., bears N. 74° E., 29 lks. dist., marked $\frac{1}{2}$ M U F R B T.
	A pine, 8 ins. diam., bears S. 64° W., 16 lks. dist., marked $\frac{1}{2}$ M U I R B T.
60.00	Set a sandstone, 24x10x8 ins., 18 ins. in the ground for an angle cor., marked \angle U I R on S: face, from which A pine, 8 ins. diam., bears S. 35° E., 6 lks. dist., marked \angle U F R B T.
	A pine, 8 ins. diam., bears N. 35° W., 25 lks. dist., marked \angle U F R B T.
	A pine, 10 ins. diam., bears S. 20° W., 10 lks. dist., marked \angle U I R B T.
	A pine, 12 ins. diam., bears N. 27° W., 32 lks. dist., marked \angle U F R B T.
	Thence N. $88^{\circ} 15'$ W.
20.00	Point for 51st mile cor. falls on rock in place, 6x4x4 ft. above ground, which is also point for angle cor. dug out a cross (X) at exact cor. point, 51 M. E. of cross, \angle U I R, S. of cross, and U F R, N. of cross, from which A pine, 16 ins. diam., bears N. 57° E., 44 lks. dist., marked 51 M \angle U F R B T.
	A pine, 12 ins. diam., bears N. 86° E., 40 lks. dist., marked 51 M \angle U F R B T.
	A pine, 22 ins. diam., bears S. 52° E., 31 lks. dist., marked 51 M \angle U I R B T.
	A pine, 6 ins. diam., bears S. 46° W., 13 lks. dist., marked 51 M \angle U I R B T.
	Land Mountainous.
	Soil rocky and gravelly, 4th and 3d rates.
	Timber, dense pines.
	Mountainous land, 80.00 chs.
	September 5th, at 12 h., 00 m., noon, 1. m. t., I set off $7^{\circ} 04'$ N., on the decl. arc, and observed the sun on the meridian at this cor. Resulting lat. is $40^{\circ} 42'$ N.

EAST BOU~~E~~NDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	52d Mile
	S. $61^{\circ} 15'$ W., on 52d mile; over mountainous land, covered with dense pine timber, ascending.
20.00	Point for angle cor., falls on a large boulder, 6x5x3 ft. above ground, marked a cross (X) at the exact cor. point, \angle U I R, SW. of cross, from which A pine, 10 ins. diam., bears S. 28° W., 22 lks. dist., marked \angle U I R B T. A pine, 12 ins. diam., bears N. 48° E., 16 lks. dist., marked \angle U F R B T. A pine, 6 ins. diam., bears S. 31° E., 12 lks. dist., marked \angle U I R B T. A pine, 10 ins. diam., bears S. 85° E., 31 lks. dist., marked \angle U I R B T.
	Thence N. $64^{\circ} 15'$ W.
20.00	Set a sandstone, 30x14x7 ins., 22 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on SE. face, U I R on SW. face, from which A pine, 6 ins. diam., bears S. 25° W., 16 lks. dist., marked $\frac{1}{2}$ M U I R B T. A pine, 6 ins. diam., bears S. 80° W., 16 lks. dist., marked $\frac{1}{2}$ M U I R B T. A pine, 6 ins. diam., bears N. 22° W., 20 lks. dist., marked $\frac{1}{2}$ M U F R B T.
34.00	Head of lake, containing about six acres, drains S.
40.00	Point for 52d mile cor. falls on rock in place, 4x3x2 ft. above ground. Marked a cross (X) at exact cor. point, 52 M, E. of cross, U I R, S. of cross, U F R, N. of cross, from which A pine, 12 ins. diam., bears S. 43° W., 47 lks. dist., marked 52 M U I R B T. A pine, 10 ins. diam., bears S. 5° E., 60 lks. dist., marked 52 M U I R B T. A pine, 10 ins. diam., bears N. 89° E., 43 lks. dist., marked 52 M U F R B T. A pine, 14 ins. diam., bears N. $8^{\circ} 30'$ W., 36 lks. dist., marked 52 M U F R B T.
	Land mountainous.
	Soil, gravelly and rocky, 3d and 4th rate.
	Timber, dense pine.
	Mountainous land, 80.00 chs.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	53d Mile
	N. $64^{\circ} 15'$ W., on 53d mile, over mountainous land, through dense pine timber, ascending.
36.00	Leave timber, bears NE. and SW. Thence along rocky ridge.
40.00	Set a sandstone, $30 \times 10 \times 7$ ins., 22 ins. in the ground, for $\frac{1}{2}$ mile cor., which is also an angle cor., marked $\frac{1}{2}$ M. on E. face, U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Thence N. $36^{\circ} 00'$ W.
40.00	Set a sandstone, $38 \times 20 \times 8$ ins., 29 ins. in the ground, for 53d mile cor., marked 53 M on S. face, U I R on W. face, U F R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high W. of cor. Pits impracticable. Land mountainous. Soil rocky, 4th rate. Timber, dense pine wood, 36 chs. Mountainous land, 80.00 chs.
	September 5, 1903.
	54th Mile
	September 6th, at 8 h., 00 m., a. m., l. m. t., I set off $6^{\circ} 45'$ N. on the decl. arc, $40^{\circ} 43'$ N. on the lat. arc, and determined a meridian with the solar, at the 53d mile cor.
	Thence I run N. $36^{\circ} 00'$ W., on the 54th mile, over mountainous land, covered with heavy slide rock.
40.00	Set a sandstone, $28 \times 12 \times 10$ ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on SE. face, U I R on SW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor. Pits impracticable.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
57.20	Set a sandstone, 26x10x7 ins., 19 ins. in the ground, for an angle cor., marked \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor., Pits impracticable. Thence N. $61^{\circ} 00'$ E.
22.80	Set a sandstone, 36x12x8 ins., 27 ins. in the ground, for 54th mile cor., marked 54 M on SW. face, U I R on NW. face, U F R on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor., Pits impracticable. Soil rocky, fourth rate. No timber. Mountainous land, 80.00 chs.

	55th Mile
	N. $61^{\circ} 00'$ E. on 55th mile, over mountainous land, covered with loose slide rock.
16.00	Set a sandstone, 24x14x7 ins., 18 ins. in the ground, for an angle cor., marked \angle U I R on NW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor., Pits impracticable. Thence N. $28^{\circ} 15'$ W.
24.00	Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor., Pits impracticable.
58.00	Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for an angle cor., marked \triangle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor., Pits impracticable. Thence N. $28^{\circ} 15'$ W.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
6.00	Set a sandstone, 38x14x8 ins., 28 ins. in the ground, for 55th mile cor., marked 55 M on S. face, U I R on W. face, and U F R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. Land mountainous. Soil rocky, 4th rate. No timber. Mountainous land, 80.00 chs.
	----- 56th Mile
	N. 28° 15' W. on 56th mile, over mountainous land, covered with loose slide rock.
8.00	Set a sandstone, 26x10x7 ins., 19 ins. in the ground, for an angle cor., marked \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. Thence N. 27° 45' E.
32.00	Set a sandstone, 38x16x9 ins., 28 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
62.00	Set a sandstone, 28x14x6 ins., 21 ins. in the ground, for an angle cor., marked \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. Thence N. 43° 15' W.
10.00	Set a sandstone, 30x12x10 ins., 23 ins. in the ground, for 56th mile cor., marked 56 M on SE. face, U I R on SW. face, and U F R on NE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor. Pits impracticable.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	Land mountainous.
	Soil rocky, 4th rate.
	No timber.
	Mountainous land, 80.00 chs.
	Sept. 6th, 12 h. 00 m., noon, l. m. t., I set off $6^{\circ} 42'$ N. on the decl. arc, and observed the sun on the meridian at this cor., resultant lat. $40^{\circ} 45'$ N. -----
	57th Mile
	N. $43^{\circ} 15'$ W. on 57th mile, over mountainous land, covered with loose slide rock, descending.
15.00	Head of deep gulch, drains E. Ascend.
40.00	Set a sandstone, 28x10x7 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., which is also an angle cor., marked $\frac{1}{2}$ M on S. face, \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. Thence N. $42^{\circ} 45'$ E.
40.00	Point for 57th mile cor. falls on large boulder in place, 6x4x3 ft. above ground. Marked a cross, (X) at the exact corner point, 57 M SW. of cross, U I R NW. of cross, U F R SE. of cross, and raise a mound of stone, 3 ft. base, 2 ft. high, N.W. of cross. Pits impracticable. Land mountainous. Soil rocky, fourth rate. No timber. Mountainous land, 80.00 chs. -----
	58th Mile.
	N. $42^{\circ} 45'$ E. on 58th Mile, over mountainous land, covered with loose slide rock,
40.00	Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	$\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S. face, U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
70.00	Set a sandstone, 26x14x7 ins. 19 ins. in the ground, for an angle cor., marked \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. Thence N. $3^{\circ} 15'$ W.
10.00	Set a sandstone, 28x16x7 ins., 21 ins. in the ground, for 58th mile cor., marked 58 M on S. face, U I R on W. face, and U F R on E. face., and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. Land mountainous. Soil rocky, fourth rate. No timber. Mountainous land, 80.00 chs.

September 6, 1903.

59th Mile

	N. $3^{\circ} 15'$ W. on 59th mile, over mountainous land, covered with loose slide rock.
40.00	Set a sandstone, 32x16x7 ins., 24 ins. in the ground, for $\frac{1}{2}$ mile cor., which is also an angle cor., marked $\frac{1}{2}$ M on S. face, \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor., Pits impracticable. Thence N. $57^{\circ} 45'$ E.
46.00	Set a sandstone, 26x12x8 ins., 19 ins. in the ground, for 59th mile cor., marked 59 M on SW. face, U I R on NW. face, and U F R on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor. Pits impracticable.

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	<p>Land mountainous. Soil rocky, fourth rate. No timber, Mountainous land, 80.00 chs.</p> <p>-----</p> <p style="text-align: center;">60th Mile.</p> <p>N. 57° 45' E., on 60th milem over mountainous land, covered with loose slide rock.</p>
40.00	<p>Set a sandstone, 28x12x7 ins., 21 ins. in the ground, for $\frac{1}{4}$ mile cor., which is also an angle cor., marked $\frac{1}{2}$ M on SW. face, U I R on NW. face, and raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor.</p> <p>Pits impracticable.</p> <p>Thence N. 32° 00' E.</p>
40.00	<p>Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for 60th mile cor., - - - - - marked 60 M on S. face, U I R on W. face, U F R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.</p> <p>Pits impracticable.</p> <p>Land mountainous.</p> <p>Soil rocky, fourth rate.</p> <p>No timber.</p> <p>Mountainous land, 80.00 chs.</p> <p>-----</p>
	<p style="text-align: center;">61st Mile</p> <p>N. 32° E., on 61st Mile, over mountainous land, cowered with loose slide rock.</p>
20.00	<p>Point on main divide, which forms the water-shed of the waters flowing north into Green River, and the waters flowing south into Uintah River. Set a sandstone, 32x12x12 ins., 24 ins. in the ground, for the N. E. cor. of Uintah Indian Reservation, marked $60\frac{1}{4}$ M. on S., N E Cor</p>

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, CONT'D.

CHAINS.

U I R on W., I P N Edy on N., and U F R on E. face; and raise a mound of stone 4 x 4 ft. base, 5 ft. high W. of cor. Corner is located on top of high rocky ridge, 2 chs. S. of edge of deep gulch, 1,000 ft. deep, drains N.
Land mountainous.
Soil rocky; 4th rate.
No timber.
Mountainous land on 20.00 chs.
Storming all day, solar observations impossible.

September 7, 1903.

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PAGE

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION

CHAINS

Survey commenced September 11, 1903, and executed with a W. and L. E. Gurley Light Mountain Transit, with solar attachment, the horizontal limb being provided with two opposite verniers, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah, August 20, 1903.

I begin at the N.E. corner of the Uintah Indian Reservation, which I established September 7, 1903, in approximate latitude $40^{\circ} 47'$ N., longitude $109^{\circ} 55'$ W. I examine the adjustments of the transit, and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications resulting from solar observations made during p.m. and a.m. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

At 4 h., 00 m., p.m., l.m.t., I set off $4^{\circ} 46'$ N. on the declination arc; $40^{\circ} 47'$ N. on the latitude arc, and mark the meridian thus determined with the solar by a cross on a stone firmly set in the ground, 5:00 chs. N. of the cor.

At 8 h., 10 m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a wooden peg set in the ground, 5.00 chs. north of my station.

September 11, 1903.

September 12, 1903, at 6 a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 36'$ to the west and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 of an inch west of the mark determined by the solar.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION, Cont.

CHAINS

At 9 h., 00 m., a.m., I.m.t., I set off $40^{\circ} 47' N.$ on the lat. arc; $4^{\circ} 29' N.$ on the decl. arc, and mark the true meridian determined with the solar, by a cross on the stone already set, 5.00 chs. N. of my station. This mark falls 0.3 ins. west of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians about $0^{\circ} 11' E.$, and $0^{\circ} 16' W.$ of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 a.m. is N. $16^{\circ} 36' W.$; the angle thus determined gives the magnetic decl. $16^{\circ} 36' E.$

From the N.E. cor. heretofore described, I run N. $45^{\circ} 15' W.$ on the first mile, over heavy slide rock, descending over mountainous land, along main divide.

40.00 Set a sandstone, $24 \times 9 \times 9$ ins., 18 ins. in the ground, for the $\frac{1}{2}$ mile cor., marked $\frac{1}{2} M U I R$ on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.

67.00 Head of draw, drains south, ascend.

80.00 Set a sandstone, $24 \times 10 \times 8$ ins., 18 ins. in the ground, for 1 mile cor., located 1 ch. W. of ravine, drains North, marked 1 M on E. face; U I R on S. face, U F R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.

L and mountainous.

Soil, rocky, 4th rate.

No timber.

Mountainous land, 80.00 chs.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

- Chains | September 12th, at the 1st mile cor. I set off $4^{\circ} 26'$ N. on the decl. arc, and at 12 h. 00m. M.l.m.t. observe the sun on the mer. the resulting lat. is $40^{\circ} 48' N.$
- 2nd Mile.
- N. $45^{\circ} 15' W.$ on 2nd mile; along main divide over loose heavy slide rock, ascending.
- 10.00 Set a sandstone, $26 \times 10 \times 8$ ins., 19 ins. in the ground, for an angle corner, marked U I R on S. face; and raise a mound of stone 3 ft. base, 12 ft. high. S. of cor. Pits impracticable.
- Thence N. $82^{\circ} 15' W.$
- 30.00 Set a sandstone, $24 \times 9 \times 9$ ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2} M U I R$ on S. face; and raise a mound of stone, 3 ft. base, 12 ft. high, S. of cor. Descend.
- Pits impracticable.
- 47.00 Head of gulch, drains SE.
- Begin abrupt ascent.
- 70.00 Set a sandstone, $24 \times 14 \times 6$ ins., 18 ins. in the ground, for 2nd mile cor., which is also an angle cor. marked $\angle U I R$ on S. face, and U F R on N. face; 2 M on E. face and raise a mound of stone, 3 ft. base, 12 ft. high, S. of cor.
- Pits impracticable.
- Land, mountainous.
- Soil, rocky, 4th rate.
- No timber.
- Mountainous land, 80.00 chs.

Sept. 12, 1903.

3rd mile.

Sept. 13, 1903: At 8 h. 00 m. a. m. l. m. t. I set off $40^{\circ} 48' N.$ on the lat. arc; $4^{\circ} 07' N.$ on decl. arc, and determine a meridian with the solar at the cor

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	2nd-mile cor. Thence I run N. 60° 00' W. on the 3rd mile, over mountainous land, covered with loose slide rock, ascending.
40.00	Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M U I R on E. face; and raise a mound of stone, 3 ft. base, and 2 ft. high, S. of cor., located 3 chs. W. of ravine, which drains N.
	Pits impracticable
80.00	Set a sandstone 24x12x6 ins., 18 ins. in the ground, for the third mile cor. located on high rocky ridge, 2 chs. W. of ravine, which drains NE. marked 3 M on E. face; U I R on S. face; U F R on N. face; and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Mountainous land, 80.00 chs.

4th Mile.

40.00	N. 60° 00' W. on 4th mile over mountainous land covered with loose slide rock, ascending.
	Set a sandstone 24x10x8 ins. 18 ins. in the ground for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M U I R on S. face; and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Cor. located 3 chs. west of head of gulch draining west.
	Pits impracticable.
80.00	Set a sandstone, 24x12x6 ins. 18 ins. in the ground for the 4 mile cor. which is also an angle cor. marked U I R on S. face; U F R on N. face, 4 M on E. face, and raise a mound of stone 3 ft. base 2 ft. high, S. of cor.
	Pits impracticable.
	Cor. located on high rocky peak.. Land mountainous. No timber.
	Soil rocky, 4th rate.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	Mountainous land, 80.00 chs. Sept. 13, 1903: At 12 h. 00m. M. l m. t., Sky overcast, solar observations for lat. impossible.
	5th Mile.
	S. $73^{\circ} 45'$ W. on the 5th mile over mountainous land, de- scending over loose slide rock.
40.00	Set a sandstone, 26x10x8 ins. 19 ins. in the ground, for $\frac{1}{2}$ mile cor. which is also an angle cor. marked $\frac{1}{2}$ M on E. and U I R on S. face, and raise a mound of stone 3 ft. base 2 ft. high, S. of cor. Pits impracticable. Thence N. $74^{\circ} 45'$ W.
40.00	Set a sandstone, 24x9x9 ins. 18 ins. in the ground for the 5th mile cor. marked 5 M on E. face, U I R on S. and U F R on N. faces, and raise a mound of stone, 3 ft. base, 12 ft. high. S. of cor. Pits impracticable. Land, mountainous. Soil rocky, 4th rate. No timber. Mountainous land, 80.00 chs.
	September 13, 1903.
	6th Mile.
	Sept. 14, : At 8h.0 mra. M. l m. t., At the 5th mile cor. I set off $40^{\circ} 49'$ N. on the lat. arc; $3^{\circ} 45'$ N. on the decl. arc; and determine a meridian with the solar. Thence I run N. $74^{\circ} 45'$ W. on the 6th mile, over mountainous land, covered with heavy slide rock, ascending. 40.00 Set a sandstone, 22x12x8 ins. 16 ins. in the ground for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on E. and U I R on S. faces.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
80.00	Set a sandstone, 24x9x9 ins. 18 ins. in the ground for the 6th mile cor. marked 6 M on E. U I R on S. and U F R. on N. faces, and raise a mound of stone 3 ft. base 2 ft. high, S. of cor. Pits impracticable. No timber. Land, mountainous. Soil, rocky, 4th rate Mountainous land, 80.00

	7th Mile.
	N. 74° 45' W. on the 7th mile. Over mountainous land, covered with loose slide rock, ascending.
40.00	Set a sandstone, 24x9x9 ins. 18 ins. in the ground. for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on N.; and U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
80.00	Set a sandstone, 24x9x9 ins. 18 ins. in the ground for the 7th mile cor. marked 7 M on E. U I R on S. and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Land, mountainous. Soil rocky, 4th rate. No timber. Mountainous land, 80.00 chs.
	September 14, At this cor. I set off 3° 40' N. on the decl. arc; and at 12 h. 00 m. M.l.m.t., observe the sun on the mer. the resulting lat. is 40° 50' N.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	N. $74^{\circ} 45'$ W. on the 8th mile over mountainous land, covered with heavy slide rock, descending.
40.00	Set a sandstone, 24x12x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor. which is also an angle cor. marked $\frac{1}{2}$ M on E. face, \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Thence S. $51^{\circ} 45'$ W. to
2.00	Pass in ridge; ascend gradually.
40.00	Set a sandstone, 24x12x6 ins. 28 ins. in the ground, for the 8th mile cor. marked 8 M on NE; U I R on SE; and U F R on NW. faces, and raise a mound of stone 3 ft base 2 ft. high S of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky 4th rate.
	No timber,
	Mountainous land 80.00 chs.
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	9th Mile.
	S. $51^{\circ} 45'$ W. on the 9th mile over mountainous land covered with heavy slide rock, descending.
40.00	Set a sandstone, 30x10x6 ins.; 22 ins. in the ground, for $\frac{1}{2}$ mile cor. which is also an angle cor. marked $\frac{1}{2}$ M on NE. and \angle UIR on SE. faces, and raise a mound of stone 3 ft. base, 2 ft. high SE. of cor. Pits impracticable.
	Thence N. $28^{\circ} 15'$ W.
40.00	Set a sandstone, 28x14x8 ins. 21 ins. in the ground, for 9th mile cor., marked 9 M on E. U I R on S. and U F R on N. face, and raise a mound of stone, 3 ft. base 2 ft. high S. of cor. Pits impracticable.
	Land, mountainous.
	Soil rocky, 4th rate.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	No timber, Mountainous land, 80.00 chs.
	Sept. 14, 1903.
	Sept. 15; 10th Mile At 8 h. 00 m.a.m.l.m.t. at the 9th mile cor. I set off $40^{\circ} 49' N.$ on the lat arc; $3^{\circ} 21' N$ on decl arc; and determine a meridian with the solar, Thence I run N. $88^{\circ} 15' W.$ on 10th mile ascending over mountainous land covered with slide rock.
40.00	Set a sandstone, 28x12x6 ins. 21 ins. in the ground, for $\frac{1}{2}$ mile cor. Marked $\frac{1}{2}$ M on E. and U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Cor. located 2 chs. S. of gulch draining N. Ascend.
50.00	Descend gradually.
56.00	Head of gulch drains NE.
80.00	Set a sandstone, 24x12x6 ins. 18 ins. in the ground for 10th mile cor. marked 10 M. on E. U I R on S. and U F R on N. face, and raise a mound of stone 3 ft. high 2 ft. high, S. of cor. Pits impracticable. Cor located 2.00 chs. S. of head of gulch draining NE. Land, mountainous. Soil, rocky, 4th rate. No timber. Mountainous land, 80.00 chs.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	11th Mile.
	N. $88^{\circ} 15'$ W. on 11th mile over mountainous land covered with heavy loose slide rock.
10.00	Set a sandstone, 24x12x8 ins. 18 ins. in the ground, for angle cor. marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
	Pits impracticable.
	Thence S. $67^{\circ} 45'$ W. descending gradually.
30.00	Set a sandstone, 26x10x8 ins. 19 ins. in the ground for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M. on E. face; U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high. S. of cor. Pits impracticable.
	Cor. located 3.00 chs. S. of gulch draining N.
70.00	Set a sandstone, 28x14x6 ins., 21 ins. in the ground, for 11th mile cor. which is also an angle cor. marked 11M on E. \angle U I R on S. and U F R on N. face. and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
	Pits impracticable.
	Land, mountainous..
	Soil, rocky, 4th rate.
	No timber.
	Mountainous land, 80.00 chs.
	Sept. 15: At this cor. at 12 h. M. 1w m. t. I set off $3^{\circ} 17'$ N. on the decl. arc; and observe the sun on the mer. the resulting lat. is $40^{\circ} 49'$ N.

	12th Mile.
	N. $89^{\circ} 15'$ W. on the 12th mile over mountainous land, covered with loose slide rock, descending.
20.00	Set a sandstone, 28x9x6 ins. 21 ins. in the ground, for an angle cor. marked \angle U I R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
	Pits impracticable.
	Thence N. $63^{\circ} 45'$ W.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

- Chains 20.00 Set a sandstone, 27x14x7 ins. 21 ins. in the ground for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on E. and U I R on S. face, and raise a mound of stone, 3 ft. base, 22 ft. high, W. of cor.
Pits impracticable.
- 60.00 Set a sandstone, 30x12x12 ins. 22 ins. in the ground, for 12th mile cor. marked 12 M on E. and U I R on S. and UFR on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
Cor located 1.00 ch. S. of head of draw draining N. Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Mountainous land, 80.00 chs.
-
- 13th Mile.
- N. $63^{\circ} 45'$ W. on 13th mile.
Over mountainous land, covered with loose slide rock, ascending.
- 40.00 Set a sandstone, 22x14x7 ins. 16 ins. in the ground for $\frac{1}{2}$ mile cor. which is also an angle cor. Marked $\frac{1}{2}$ M on E. and ~~U~~ U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
Thence S. $86^{\circ} 15'$ W.
- 40.00 Set a sandstone, 32x9x7 ins., 24 ins. in the ground, for the 13th mile cor. marked 13 M on E. and U I R on S. and UFR on N. face. and raise a mound of stone 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
Cor. located in pass in mountain running N. and S. Land, mountainous.
Soil, rocky, 4th rate.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	No timber. Mountainous land, 80.00 chs.
	Sept. 15th, 1903.
	14th Mile.
	Sept. 16: At 8h20 m a.m. I set off $40^{\circ} 49' N.$ on the lat. arc. $2^{\circ} 58'$ N on the decl. arc; and determine a mer. with the solar at the 13th mile cor. Thence I run S. $86^{\circ} 15'$ W. on the 14th mile. Over mountainous land covered with loose slide rock, descending.
17.00	Head of gulch draining N. Ascend.
40.00	Set a sandstone, $21 \times 12 \times 8$ ins. 14 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2} M$ on E. and U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high. S. of cor. Pits impracticable. Cor. located about 13 chs. N of lake, which is 16 chs. long and 8 chs. wide. Lying E. and W.
56.00	Ascend abruptly.
80.00	Set a sandstone, $24 \times 14 \times 8$ ins. 18 ins. in the ground, for 14th mile cor. marked 14 M on E. U I R on S. and U F R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 4th rate. No timber. Mountainous land, 80.00 chs.
	15th Mile. S. $86^{\circ} 15'$ W. on 15th mile. Over mountainous land covered with loose slide rock, ascend gently.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

- Chains 40.00 Set a sandstone, 26x14x6 ins. 19 ins. in the ground for $\frac{1}{2}$ mile cor. which is also an angle cor. marked $\frac{1}{2}$ M on E. and \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
Thence N. $51^{\circ} 15' W.$
- 40.00 Set a sandstone, 36x10x7 ins. 27 ins. in the ground, for 15th mile cor. which is also an angle cor. marked 15 M on SE. \angle U I R on S W. and U F R on NE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor.
Pits impracticable.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Mountainous land, 80.00 chs.
September 16th,
At this cor. I set off $2^{\circ} 55' N$ on the decl. arc; and at 12 h. M. l. m. t., Observe the sun on the mer. the resulting lat. is $40^{\circ} 49' N.$
-
- 16th Mile.
- N. $62^{\circ} 45' W.$ on 16th mile.
Over mountainous land, covered with loose slide rock, descending.
- 40.00 Set a sandstone, 24x14x8 ins. 18 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on SE. and U I R on SW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor.
Pits impracticable.
Cor. located 2.00 chs. S. of head of draw draining N.
- 80.00 Set a sandstone, 24x10x8 ins. 18 ins. in the ground for the 16th mile cor. which is also an angle cor. marked 16 M. on SE. \angle U I R on SW. and U F R on NE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor.
Pits impracticable.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	Land, mountainous. Soil, rocky, 4th rate. No timber. Mountainous land, 80.00 chs.

	17th Mile.
	N 74° W. on 17th Mile.
	Over mountainous land covered with heavy slide rock, ascending.
8.00	Set a sandstone, 28x9x9 ins., 21 ins. in the ground, for an angle cor. marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 12 ft. high, S. of cor. Cor. located 2 chs. E. of head of draw draining N.
	Thence S. 73° W.
	Ascending over slide rock.
32.00	Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor. which is also an angle cor. marked \angle M on E. and \angle U I R on S. face, and raise a mound of stone, 3 ft. base, .2 ft. high, S. of cor.
	Pits impracticable.
	Thence N. 67° W.,.
20.00	Head of gulch draining N. Ascend.
40.00	Set a sandstone, 38x9x7 ins. 28 ins. in the ground, for the 17th mile cor. marked 17 M on E. U I R on S. and U F. R on N. face and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	No timber.
	Mountainous land, 80.00 chs.

Sept. 16, 1903.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	18th Mile. N. 67° W. on 18th mile. Over mountainous land, covered with heavy loose slide rock, ascending.
10.00	Descend.
38.00	Set a sandstone, 28x9x9 ins. 21 ins. in the ground for an angle cor. marked \angle U I R on S. face, raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Cor. located 10 lks. E. of head of draw draining N.
	Thence S. 50° W.
	Ascend.
2.00	Set a sandstone, 24x10x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on N. face; U I R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high S. of cor. Pits impracticable.
15.00	Set a sandstone, 27x10x8 ins., 21 ins. in the ground for an angle cor. marked \angle U I R on S. face; and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Thence N. 76° 30' W.
27.00	Set a sandstone, 38x10x6 ins., 28 ins. in the ground, for the 18th mile cor. marked 18 M on E. U I R on S., and U F R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 4th rate. No timber. Mountainous land, 80.00 chs.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	
	19th mile.
	N. 76° 30' W. on 19th mile.
	Over mountainous land, covered with loose slide rock, descending.
30.00	Head of draw draining S. Ascend.
40.00	Set a sandstone, 28x16x10 ins. 21 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on E.; and U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Descend.
52.00	Head of draw drains N. Ascend.
73.00	Set a sandstone, 36x10x8 ins. 27 ins. in the ground, for an angle cor. marked U I R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Thence N. 69° W.,
7.00	Set a sandstone, 30x10x8 ins., 22 ins. in the ground, for 19th mile cor. marked 19 M on E. U I R on S. and U F R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	No timber.
	Mountainous land, 80.00 chs.
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	20th Mile.
	N 69° W. on 20th mile.
	Over mountainous land, covered with loose slide rock, descending.
40.00	Set a sandstone, 28x12x8 ins. 21 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on E. and U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	Cor. located 4 chs. S. of draw draining N. Ascend.
62.00	Set a sandstone, 30x9x9 ins. 22 ins. in the ground for an angle cor. marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Thence S. 72° 45' W.
18.00	Set a sandstone, 24x12x10.ins. 18 ins. in the ground, for the 20th mile cor. marked 20 M on E.; U I R on S. and U F R. on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th rate. No timber. Mountainous land, 80.00 chs.

21st Mile.

	S. 72° 45' W. On 21st mile over mountainous land, covered with loose slide rock, descending.
40.00	Set a sandstone, 24x12x6 ins. 18 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on E. and U I R on S. face, and raise a mound of stone 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Cor. located on a pass in the mountain which runs N and S. Ascend.
66.00	Set a sandstone 24x12x6 ins. 18 ins. in the ground for and angle cor. marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Thence S. 74° .45' W. Descend.
14.00	Set a sandstone, 24x12x6 ins., 18 ins. in the ground, marked for the 21st mile cor./21 M on E.; U I R on S. and U F R. on N. face, and raise a mound of stone, 3 ft. base,

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	
	2 ft. high, S. of cor.
	Pits impracticable.
	Cor. located 1 ch. S. of draw, draining N.
	Land, mountainous.
	Soil, rocky, 4th rate.
	No timber.
	Mountainous land, 80.00 chs.
	Sky overcast all <u>day</u> . <u>solar obs'ny</u> . impossible.

Sept. 17, 1903.

22nd Mile.

Sept. 18: At 8 h. 00 m. a. m., I set off $2^{\circ} 12' N$ on decl. arc; $40^{\circ} 50'$ N. on lat. arc; and determine a mer. with the solar at the 21st mile cor.

Thence I run

S. $74^{\circ} 45'$ W. on the 22nd mile over mountainous land covered with loose slide rock ascending.

40.00 Set a sandstone, $32 \times 10 \times 6$ ins. 24 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on E. and U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high S. of cor. Pits impracticable.

80.00 Set a sandstone, $28 \times 10 \times 8$ ins. 21 ins. in the ground for the 22nd mile cor. marked 22 M on E. U I R on S. and U F R on N. face, and raise a mound of stone, 3 ft. base 2 ft. high, S. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Mountainous land, 80.00 chs.

23rd Mile.

S. $74^{\circ} 45'$ W. on 23rd mile over mountainous land, covered with loose slide rock, descend abruptly.

20.00 Head of gulch draining S.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	Ascend abruptly.
40.00	Set a sandstone, 22x9x9 ins., 17 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on E. and U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
80.00	Set a sandstone, 38x14x10, ins 28 ins. in the ground, for the 23rd mile cor. marked 23 M on E. U I R on S. and U F. R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Land, mountainous. Soil, rocky, 4th rate. No timber. Mountainous land, 80.00 chs.
	Sept. 18, 1903: At this cor. I set off $2^{\circ}08'N.$ on the decl. arc; and at 12 h. 00 m.M., l.m.t. observe the sun on the mer. the resulting lat. is $40^{\circ} 50' N.$
	24th Mile.
	S. $74^{\circ} 45' W.$ On the 24th mile over mountainous land covered with loose slide rock ascending.
18.00	Set a sandstone, 26x9x9 ins. 19 ins. in the ground, for an angle cor. marked 4 U I R on S. face, raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Continues ascent. Thence S. $80^{\circ} 45' W.$
22.00	Set a sandstone, 24x9x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on E. and U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
26.00	Set a sandstone, 24x9x9 ins. 18 ins. in the ground, for an angle cor. marked 4 U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

- Chains Pits impracticable.
 Thence N. 71° 30' W.
 Ascend abruptly.
- 36.00 Set a sandstone, 24x10x9 ins., 18 ins. in the ground,
 for 24th mile cor. marked 24 M on E. U I R on S. and U
 F R on N. face, and raise a mound of stone, 3 ft. base,
 2 ft. high, S. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Mountainous land, 80.00 chs.
-
- 25th Mile.
- N. 71° 30' W. on the 25th mile,
 Over mountainous land, covered with loose slide rock,
 ascending.
- 27.00 Set a sandstone, 22x14x8 ins. 15 ins. in the ground, for
 an angle cor. marked ~~✓~~ U I R on W. face, and raise
 a mound of stone, 3 ft. base, 2 ft. high, S. of cor.,
 located on Gilbert Peak. From this cor. a geological
 monument is situated on this same high peak and bears
 N. 76° 52' E. 9.87 chs. Geological monument is situated
 on large flat rock 5x3 ft. in which is cemented an alum-
 inum cap marked 13449 ft. above sea level, Datum A A.
 Thence S. 64° W.
 Descend abruptly.
- 33.00 Set a sandstone, 22x14x6 ins. 16 ins. in the ground, for
 ½ mile cor. marked ~~✓~~ M on NE. and U I R on SE. face,
 and raise a mound of stone, 3 ft. base, 2 ft. high, S.
 of cor.
 Pits impracticable.
- 33.00 Set a sandstone, 26x10x8 ins. 19 ins. in the ground, for
 angle cor. marked ~~✓~~ U I R on SE. face and raise a
 mound of stone, 3 ft. base, 2 ft. high, SE. of cor.
 Pits impracticable.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains	Thence S 20° W.
20.00	Set a sandstone, 42x14x6 ins. 32 ins. in the ground, for 25th mile cor. marked 25 M on N. face, U I R on E. face and U F R on W. face, and raise a mound of stone, 3 ft. base 2 ft. high, E. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	No timber.
	Mountainous land, 80.00 chs.
	Sept. 18. 1903.

	26th Mile.
	Sept. 19, 1903: At 8 h. 00 m. a. m., l. m. t., I set off 1° 49' N. on the decl. arc; 40° 49' N on the lat. arc. and determine a mer. with the solar at the 25th mile cor.
	Thence I run
	S. 20° W. on 26th mile.
	over mountainous land, covered with loose slide rock, descending.
8.00	Head of gulch drains SE.
	Ascend.
40.00	Set a sandstone, 26x10x8 ins. 19 ins. in the ground for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M. on N. face, U I R on E. face and raise a mound of stone 3 ft. base, 2 ft. high, E. of cor.
	Descend.
56.00	Set a sandstone, 28x14x6 ins. 21 ins. in the ground for angle cor., marked U I R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
	Cor. located in low pass in ridge.
	Thence S. 14° E.
	Ascend abruptly.
24.00	Set a white sandstone, 24x14x12 ins. 18 ins. in the ground for the 26th mile cor.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. CONT.

Chains marked 26 M on N. face; U I R on E. face, and U F R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high E. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Mountainous land, 80.00 chs.

27th Mile.

S. 14° E. on 27th Mile.

Over mountainous ^{land} covered with heavy slide rock, ascending.

- 4.30 Set a sandstone, 24x9x9 ins., 18 ins. in the ground, for angle cor. marked U I R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor. Thence S. $22^{\circ} 15'$ W... Descend.
- 55.70 Point for cor.: falls in loose slide rock and cannot be set.
- 36.00 Set a sandstone, 28x10x8 ins. 21 ins. in the ground for W C to $\frac{1}{2}$ mile cor. marked W C. $\frac{1}{2}$ M on N. face; U PR on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- 49.00 Pass in main ridge.
- 75.70 Set a sandstone, 26x12x6 ins. 19 ins. in the ground for the 27th mile cor. marked 27 M on N. face, U I R on E. face and U F R on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- Pits impracticable.
- Land, mountainous.
- Soil, rocky, 4th rate.
- No timber.
- Mountainous land, 80.00 chs.
- Sept. 19, 1903, I set off $41^{\circ} 44'$ N. on the decl. arc. and at 12 h. 00 m. M.L.T., observe the sun on the mer. the resulting lat. is $40^{\circ} 48'$ N.

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION. Cont.

Chains

28th Mile:

S. $22^{\circ} .15'$ W. on the 28th mile

Over mountainous land, covered with loose slide rock, ascending.

12.00 Set a sandstone, 24x12x6 ins. 18 ins. in the ground, for angle cor. marked  U I.R on E face, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.

Pits impracticable.

Thence N. 73° 00' W.,

28.00 Set a sandstone, 24x9x9 ins. 18 ins. in the ground for $\frac{1}{2}$ mile cor. which is also an angle.cor. marked $\frac{1}{2}$.M on E. face,
~~W~~ U I R on S. face and raise a mound of stone, 3 ft. base
2 ft. high. S. of cor.

Pits impracticable.

Then S. 73° 00' W., Descend.

18.00. Head of gulch drains N.

40.00 Set a sandstone, 27x9x8 ins., 21 ins. in the ground, for
28th mile cor. mkd. 28 M. on E. face; U I R. on S. face and
U F R on N. face, and raise a mound of stone, 3 ft. base,
2 ft. high, S. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Mountainous land, 80.00 chs.

557

29th mile.

S. 73° W. on 29th mile

Over mountainous land, covered with slide rock, ascending.

3.60 Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for angle cor. marked \angle U I R on S. face; and raise a mound of stone, 3 ft. base, 2 ft. high. S. of cor.

Pits impracticable?

Cor. located on high peak.

At intersection of ridge, bearing NW and SE, and the main divide N.

Thence N. 46°. 30' W. Descend.

NORTH BOUNDARY OF UINTAH INDIAN RESERVATION, Cont'd.

CHAIN S

- 6.40 Set a sandstone, 24x12x18 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
Thence S. 86° W.
- 30.00 Set a sandstone, 22x10x6 ins., 16 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., and U.I.R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
- 52.38 Set a sandstone, 28x14x10 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
Thence S. $75^\circ 45'$ W.
- 17.62 Point for cor. falls on sandstone rock in place, 5x2x2 ft. above ground, cut cross (X) at exact cor. point, for 29th mile cor., marked 29 M on E., U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
Land mountainous. Soil, rocky, 4th rate. No Timber.
Mountainous land, 80.00 chs. September 19, 1903.
-
- S. $75^\circ 45'$ W. on the 30th mile, over mountainous land and heavy slide rock, descending along main divide.
- 40.00 Set a sandstone, 24x8x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., which is also an angle cor., marked $\frac{1}{2}$ M on E., and U I R on S.. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
Thence N. $58^\circ 45'$ W.
- 3.00 Descend over rocky cliff.
- 15.00 Low pass, bears N.E. and S.W.
- 16.00 Steep ascent over cliff and slide rock.
- 40.00 Set a sandstone, 26x12x10 ins., 20 ins. in the ground, for 30 mile cor., marked 30 M on S.E., and U I R on S.W. faces, and U F "R on N. face, and raise a mound of stone,

NORTH BOUNDARY OF THE UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

3 ft. base, 2 ft. high, S. of cor., located on cliffs.
Land mountainous. Soil, rocky, 4th rate.
No timber. Land mountainous, 80.00 chs.

31st Mile

N. $58^{\circ} 45'$ W. on 31st mile, ascending abruptly over cliffs.
6.00 Top of cliffs, descend.
17.00 Pass, bears N.E. and S.W., ascend over slide rock.
40.00 Point for $\frac{1}{2}$ mile cor., falls on slide rock and cannot
be set.
50.00 On what is supposed to be Wilson Peak, set a sandstone,
24x8x8 ins., 18 ins. in the ground, for W.C. to $\frac{1}{2}$ mile
cor., which W.C. is also an angle cor., marked W C $\frac{1}{2}$ M on
S.E., U I R on S.W. face, and raise a mound of stone, 3
ft. base, 2 ft. high, S.W. of cor. Pits impracticable.
From this cor., U.S.G.M. bears N. $46^{\circ} 30'$ W., 1.37 chs.
dist., which is situated on large flat rock, upon which is
cemented an aluminum plate, marked ELEVATION 13,161,
Datum V A.
Thence S. $25^{\circ} 30'$ W., descending from high peak.
2.00 Descend abruptly over slide rock.
30.00 Set a sandstone, 26x12x8 ins., 19 ins. in the ground,
for 31 mile cor., marked 31 M on N.E., U I R on S.E.,
and U F R on W. faces, and raise a mound of stone, 3 ft.
base, 2 ft. high, S.E. of cor. Pits impracticable.
Land mountainous. Soil, rocky, 4th rate.
No timber. Mountainous land, 80.00 chs.

32d mile.

S. $25^{\circ} 30'$ W., descending over mountainous land and
heavy slide rock.
11100 Set a sandstone, 28x14x6 ins., 21 ins. in the ground,
for angle cor., marked \angle U I R on E. face, and raise a
mound of stone, 3 ft. base, 2 ft. high, E. of cor.

NORTH. BOUNDARY OF THE UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	P its impracticable.
	Thence S. $34^{\circ} 30'$ W.
3.00	Head of gulch, drains E., ascend.
11.50	Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for angle cor., marked \angle U I R on S.E., face, and raise a mound of stone, 3 ft. base, 2 ft. high, S.E. from cor. Pits impracticable.
	Thence S. $50^{\circ} 45'$ W. Descend over slide rock.
8.00	Pass in ridge, bears N.W., and S.E.
17.50	Point for $\frac{1}{2}$ mile cor. falls on slide rock, and cannot be set.
27.50	Set a sandstone, 30x10x6 ins., 22 ins. in the ground, for Witness Corner to $\frac{1}{2}$ mile cor., marked W C $\frac{1}{2}$ M on N.E. face; U I R on S.E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S.E. of cor. Pits impracticable.
45.50	Set a sandstone, 28x10x6 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Thence N. $75^{\circ} 30'$ W.
12.00	Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for 32 mile cor., marked 32 M on E. face, U I R on S. face, and U F R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky, 4th rate.
	No timber.
	Mountainous land, 80.00 chs.
	Sky overcast all day. Solar observations impossible.
	September 20, 1903.

	September 21, 1903. Ground covered with two feet of snow, and still snowing. Impossible to continue work

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

further this Fall.

33d Mile.

Survey continued June 14, 1904, and executed with a W. and L. E. Gurley Light Mountain Transit, with solar attachment, the horizontal limb being provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the lat. and decl. arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the U. S. Surveyor General for Utah, August 20, 1903.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during p.m. and a.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the 32d mile cor., described above, in approximate latitude $40^{\circ} 47' N.$, Longitude $110^{\circ} 27' W.$, I set off 40° $47' N.$ on the lat. arc; $23^{\circ} 18' N.$ on the decl. arc, and at 4 h., 00 m., p.m., l.m.t., determined with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

June 14, 1904.

June 15, 1904, at 1 h., 55.8 m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 6 a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ} 36'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set early this morn-

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

ing, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 47' N.$ on the lat. arc; $23^{\circ} 20' N.$ on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station. This mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m., and a.m. observations, defines positions for meridians respectively about $0' 21''$ west and $0' 16''$ east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8 h., 30 m., a.m., l.m.t., is N. $16^{\circ} 40' W.$; the angle thus determined gives the mag. decl., $16^{\circ} 40' E.$

33d Mile.

Thence I run N. $75^{\circ} 30' W.$, on the 33d mile.

Ascend over mountainous land covered with slide rock.

40.00 Set a sandstone, 24x9x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2} M$ on E., and U I R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.

48.00 Descend.

73.30 Set a sandstone, 24x12x6 ins., 18 ins. in the ground, for angle cor., marked $\angle U I R$ on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.

Thence S. $24^{\circ} 15' W.$

6.70 Set a sandstone, 30x14x6 ins., 22 ins. in the ground, for 33d mile cor., marked 33 M on N.E., U I R on S.E.,

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAIN \$

and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S.E. of cor.

Pits impracticable.

Land mountainous.

Soil rocky, fourth rate.

No timber.

Mountainous land, 80.00 chs.

34th mile.

S. $24^{\circ} 15'$ W. on the 34th mile.

Over mountainous land, covered with heavy slide rock, descending.

16.00 Pass in mountain, bears E. and W. Ascend over slide rock and broken ledges.

40.00 Set a sandstone, 26x12x8 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., which is also an angle cor., marked $\frac{1}{2}$ M on N.E. face, U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Thence N. 77° W. Descend over broken ledges.

40.00 Set a sandstone, 24x12x6 ins., 18 ins. in the ground, for 34 mile cor., marked 34 M on E., U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Land mountainous.

Soil rocky, fourth rate.

No timber.

Mountainous land, 80.00 chs.

35th Mile.

June 15, 1904, at the 34th mile cor., I set off $23^{\circ} 20'$ N.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

on the decl. arc, and at 12 h. 00 m., M., l.m.t., observed the sun on the meridian, resulting latitude, $40^{\circ} 47' N.$ Thence I run N $77^{\circ} W.$, over mountainous land, covered with loose slide rock, ascending.

- 20.00 Pass in mountain, bears NW. and SE.
 40.00 Set a sandstone, $26 \times 10 \times 7$ ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2} M$ on E. face, U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

- 72.30 Set a sandstone, $36 \times 14 \times 8$ ins., 27 ins. in the ground, for an angle cor., marked U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Thence S. $28^{\circ} 30' W.$

- 7.70 Set a sandstone, $34 \times 14 \times 14$ ins., 26 ins. in the ground, for the 35th mile cor., marked 35 M on NE. face, U I R on SE. face, U F R on NW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.

Pits impracticable.

Land mountainous.

Soil rocky, fourth rate.

No timber.

Mountainous land, 80.00 chs.

36th Mile.

S. $28^{\circ} 30' W.$, over mountainous land, covered with heavy slide rock, descending, on 36th mile.

- 28.00 Mountain pass, bears W. and E.
 33.00 Set a sandstone, $26 \times 12 \times 6$ ins., 19 ins. in the ground, for an angle cor., marked U I R on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

- Pits impracticable.
- Thence S. $47^{\circ} 15'$ W. Ascend abruptly.
- 7.00 Set a sandstone, 26x9x9 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on NE. face, U I R on SE. face, and raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, SE. of cor.
- Pits impracticable.
- Descend.
- 27.00 Descend abruptly.
- 47.00 Set a sandstone, 26x9x9 ins., 19 ins. in the ground, for 36th mile cor., marked 36 M on NE. face, U I R on SE. face, and U F R on NW face, and raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, SE. from cor.
- Pits impracticable.
- Soil rocky, fourth rate.
- No timber.
- Mountainous land, 80.00 chs. June 15, 1904:
-
- 37th Mile.
- S. $47^{\circ} 15'$ W., on the 37th mile, over mountainous land, covered with loose slide rock, ascending.
- 14.00 Set a sandstone, 25x9x9 ins., 19 ins. in the ground, for an angle cor., marked U I R on SE. face, and raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, SE. of cor.
- Pits impracticable.
- Thence S. 60° W., Descend.
- 14.00 Pass in mountain, bears N. and S. Ascend.
- 26.00 Set a sandstone, 26x9x9 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on NE. face, U I R on SE. face, and raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, SE. of cor.
- Pits impracticable.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

- 66.00 Set a sandstone, 26x9x9 ins., 19 ins. in the ground, for 37th mile cor., marked 37' M on NE. face, U I R on SE. face, and U F R on NW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.
Pits impracticable.
Land mountainous.
Soil rocky, fourth rate.
No timber.
Mountainous land, 80.00 chs.
-
- 38th Mile.
- S. 60° W., on 38th mile, over mountainous land, covered with loose slide rock, ascending.
- 21.00 Cor. falls on large boulder in place, 5x3x2 ft. above ground, marked a cross (X) at the cor. point, and chiseled \angle U I R, S. of cross, for angle cor., and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
Thence N. 1° 30' W. Ascend.
- 17.00 Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for an angle cor., marked \angle U I R on SW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor.
Pits impracticable.
Thence S. 66° 15' W.,
- 2.00 Set a sandstone, 32x12x8 ins., 24 ins. in the ground, for $\frac{1}{2}$ M cor., marked $\frac{1}{2}$ M on E. face, U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
- 13.80 Set a sandstone, 24x9x9 ins., 18 ins. in the ground, for an angle cor., marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable,

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	Thence N. 36° 30' W.,
28.20	Set a sandstone, 28x8x9 ins., 21 ins. in the ground, for 38th mile cor., marked 38 M on SE. face, U I R on SW. face, U F R on NE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky, fourth rate.
	No timber.
	Mountainous land, 80.00 chs.

	39th Mile.
	N. 36° 30' W., on 39th mile, over mountainous land, covered with heavy slide rock, descending.
12.00	Begin ascent.
35.00	Set a sandstone, 25x12x6 ins., 19 ins. in the ground, for angle cor., marked U I R on SW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor.
	Pits impracticable.
	Thence N 78° 30' W., Descend gradually.
5.00	Set a sandstone, 28x14x10 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E face, U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
	Pits impracticable.
35.00	Pass in mountain, bears N. and S. Ascend.
45.00	Set a sandstone, 24x9x9 ins., 18 ins. in the ground, for 39th mile cor., marked 39 M on E., U I R on S., and U F R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high S. of cor..
	Pits impracticable.
	Land mountainous.
	Soil rocky, fourth rate.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

No timber.

Mountainous land, 80.00 chs.

40th Mile.

N. $78^{\circ} 30'$ W., on the 40th mile, over mountainous land, covered with loose slide rock, ascending.

14.50 Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for angle cor., marked, ~~U I R~~ on S. face, and raise a mound of stone, 3 ft. base, 12 ft. high, S. of cor.

Pits impracticable.

Thence S. $18^{\circ} 30'$ W.

15.00 Ascend.

25.50 Set a sandstone, 22x10x9 ins., 16 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2} M$ on N. face, U I R on E. face, and raise a mound of stone, 3 ft. base, 12 ft. high, E. of cor.

30.50 Set a sandstone, 24x12x6 ins., 18 ins. in the ground, for angle cor., marked, ~~U I R~~ on SE. face, and raise a mound of stone, 3 ft. base, 12 ft. high, SE. of cor.

Pits impracticable.

Thence S. 58° W.

3.00 Set a sandstone, 20x12x9 ins., 15 ins. in the ground, for angle cor., marked, ~~U I R~~ on SE. face, and raise a mound of stone, 3 ft. base, 12 ft. high, SE. of cor.

Pits impracticable.

Thence S $42^{\circ} 30'$ W. Descend abruptly.

32.00 Set a sandstone, 27x8x9 ins., 20 ins. in the ground, for 40th mile cor., marked 40 M on NE. face, U I R on SE. face, and U. F R on NW. face, and raise a mound of stone, 3 ft. base, 12 ft. high, SE. of cor.

Pits impracticable.

Land mountainous.

(34)

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

Soil rocky, fourth rate.

No timber.

Mountainous land, 80.00 chs.

Sky overcast all day. Solar observations impossible.

June 16, 1904.

41st Mile.

June 17, 1904, at 8 h. 00 m., a. m., L. m. t., I set off $40^{\circ}46'N$ on the lat. arc, $23^{\circ} 24' N.$ on the decl. arc, and determined a meridian with the solar at the 40th mile cor.

Thence I run, S. $42^{\circ} 30' W.$, on the 41st mile, over mountainous land, covered with loose slide rock, descending.

11.00 Pass in mountain, bears W. and E. Ascend.

34.00 Top of level bench.

40.00 Set a sandstone, $25 \times 10 \times 9$ ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2} M$ on NE. face, U I R on SE. face, and raise a mound of stone, 3 ft. high, 2 ft. high, SE. of cor.

Pits impracticable.

42.00 Point for angle cor. falls on boulder in place, $5 \times 3 \times 2$ ft. above ground, on which I cut a cross (X) at the exact point, and chiseled, ~~U~~ U I R SE. of cross, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.

Pits impracticable.

Thence S. $76^{\circ} W.$ Ascend abruptly.

38.00 Set a sandstone, $25 \times 8 \times 9$ ins., 19 ins. in the ground, for 41st mile cor., marked, 41 M on E. face, U I R on S. face, and U F R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION. Cont'd.

- CHAINS Land, mountainous.
 Soil, rocky, fourth rate.
 No timber.
 Mountainous land, 80.00 chs.
-
- 42nd MILE.
- S. 76° W. on 42nd mile, over mountainous land, covered with loose slide rock, ascending.
- 18.00 Set a sandstone, 26x8x9 ins., 19 ins. in the ground, for angle cor. marked \angle UIR on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
 Thence N. 42° W.
- 12.00 Set a sandstone, 26x12x8 ins., 19 ins in the ground, for angle cor., marked \angle UIR on SW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor. Pits impracticable.
 Cor. located on top of high cliff.
 Thence N. 20° W. Descend abruptly.
- 10.00 Set a sandstone, 22x9x9 ins., 17 ins. in the ground, for $\frac{1}{2}$ mile cor, also an angle cor, marked $\frac{1}{2}M$ on E. face \angle UIR on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high S. of cor. Pits impracticable.
 Thence N. $57^{\circ} 00'$ W.
- 25.00 Ascend.
- 40.00 Set a sandstone, 28x12x10 ins., 21 ins. in the ground, for 42nd mile cor., which is also an angle cor., marked 42M on E. face, \angle UIR on S. face, and UFR on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky, fourth rate.
 No timber.
 Mountainous land, 80.00 chs.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

June 17, at this cor. I set off $23^{\circ} 34'$ N. on the decl. arc; and at 12 h. 00 m.M.l.m.t., observe the sun on the mer. The resultant lat, is $40^{\circ} 46'$ N.

43rd MILE.

S. $35^{\circ} 15'$ W. on the 43d mile, over mountainous land, covered with loose slide rock, ascending.

- 7.00 Begin descent.
- 40.00 Set a sandstone, 24x9x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor, also an angle cor., marked $\frac{1}{2}M$ on E. face, UIR on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
Thence West.
- 33.00 Ascend.
- 40.00 Set a sandstone, 52x12x8 ins., 24 ins. in the ground, for 43rd mile cor. also an angle cor., marked 43M on E. face; UIR on S. face, and UFR on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high; S. of cor.
Pits impracticable.
Land, mountainous.
Soil, rocky, fourth rate.
No timber.
Mountainous land, 30.00 chs.
-

44th MILE.

N. 60° W. on 44th mile, over mountainous land, covered with loose slide rock, ascending.

- 28.00 Descend.
- 40.00 Set a sandstone, 22x10x9 ins., 16 ins. in the ground, for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}M$ on E. face, UIR on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.
- 86.00 Set a sandstone, 28x10x10 ins., 21 ins. in the ground,

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NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd..

CHAINS

- also an angle cor.
for 44th mile cor., marked 44 M on E. face, \angle U I R on S. face, and U F R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.,
Pits impracticable.
Land mountainous.
Soil rocky, fourth rate.
No timber.
Mountainous land, 80.00 chs.

June 17, 1904.

45th Mile.

June 18, at 8 h., 00 m., a. m., l. m. t., I set off $40^{\circ} 47' N$ on the lat. arc, $23^{\circ} 26' N.$, on the decl. arc, and determined a meridian with the solar, at the 44th mile cor.

Thence I run, N. $32^{\circ} 30' W.$, over mountainous land, covered with heavy slide rock, descending.

17.40 Set a sandstone, 24x10x9 ins., 18 ins. in the ground, for angle cor., marked, \angle U I R on SW face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW of cor.

Pits impracticable.

Cor. located on ridge, bears NE. and SW.

Thence N. $41^{\circ} 30' W.$ Ascend.

22.60 Set a sandstone, 22x10x8 ins., 16 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on SE. face, U I R on SW. face, and raise a mound of stone, 3 ft. base, 12 ft. high, SW. of cor.

Pits impracticable.

24.90 Set a sandstone, 26x9x9 ins., 19 ins. in the ground, for an angle cor., marked, \angle U I R, on S. face, and raise a mound of stone, 3 ft. base, 12 ft. high, S. of cor.

Pits impracticable.

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NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAIKS

Thence S. $63^{\circ} 00'$ W., Descend.

25.00 Ascend.

37.70 Set a sandstone, 25x11x8 ins., 17 ins. in the ground, for 45th mile cor., marked 45 M on E. face, U I R on S. face, and U F R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.,

Pits impracticable.

Land Mountainous.

Soil rocky, fourth rate.

No timber.

Mountainous land, 80.00 chs.

46th Mile.

S. 63° W., over mountainous land, covered with loose slide rock, ascending.4.00 Set a sandstone, 22x9x9 ins., 16 ins. in the ground, for angle cor., marked ~~4~~ U I R, on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.

Pits impracticable.

Thence S $34^{\circ} 30'$ W.

17.00 Descend.

29.00 Trail, bears N. and S.

36.00 Set a sandstone, 22x9x9 ins., 16 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on NE. face, U I R on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.

Pits impracticable.

46.00 Ascend.

71.00 Ascend abruptly, over cliffs 300 ft. high, bears E. & W.

76.00 Set a sandstone, 28x12x9 ins., 21 ins. in the ground, for 46th mile cor., marked 46 M on NE. face, U I R on SE. face, and U F R on NW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.

Pits impracticable.

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NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

Land mountainous.

Soil rocky, fourth rate.

No timber.

Mountainous land, 80.00 chs.

June 18; at 12 h. 00 m., noon, l. m. t., sky overcast,
solar observations impossible.-----
47th Mile.S. $34^{\circ} 30'$ W., on 47th mile, over mountainous land,
covered with heavy slide rock, ascend abruptly.37.40 Set a sandstone, 22x12x8 ins., 16 ins. in the ground,
for angle cor., marked, ~~U I R~~ on SE. face, and
raise a mound of stone, 3 ft. base, 2 ft. high, SE. of
cor.

Pits impracticable.

Thence S. $39^{\circ} 15'$ W. Descend.2.60 Set a sandstone, 34x9x6 ins., 26 ins. in the ground, for
 $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on NE. face, U I R on SE. face,
and raise a mound of stone, 3 ft. base, 2 ft. high, SE.
of cor.

Pits impracticable.

Descend abruptly over broken ledges.

42.60 Set a sandstone, 32x14x8 ins., 24 ins. in the ground, for
the 47th mile cor., marked 47 M on NE. face, U I R on SE.
face, and U F R on NW. face, and raise a mound of stone
3 ft. base, 2 ft. high, SE. of cor.

Pits impracticable.

Land mountainous.

Soil rocky, fourth rate.

No timber.

Mountainous land, 80.00 chs.

48th Mile.S. $39^{\circ} 15'$ W., on 48th mile, over mountainous land,

NORTH BOUNDARY OF UTEHAN INDIAN RESERVATION, Cont'd.

CHAINS

covered with loose slide rock, descend gently.

5.00 Ascend.

21.60 Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for angle cor., marked, $\frac{1}{2}$ U I R on S.E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S.E. of cor.

Pits impracticable.

Thence N. $84^{\circ} 30' W.$, Descend abruptly.

18.40 Set a sandstone, 24x9x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E. face, U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

51.00 Pass in ridge, bears N. and S. Ascend.

58.40 Set a sandstone, 25x9x9 ins., 19 ins. in the ground, for the 48th mile cor., marked 48 M on E., face, U I R on S. face, and U F R on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
Land mountainous,
Soil rocky, thin crust.
No timber.

Mountainous land 80.00 chis.

June 18, 1904.

49th Mile.

June 19, at 8.00 a.m., a. m. t., I set off $23^{\circ} 26'$ E. on the decl. arc, $40^{\circ} 45' N.$ on the lat. arc, and determined a meridian with the solar at the 48th mile cor. Thence I run, N $84^{\circ} 30' W.$ over mountainous land, broken ledges, and slide rock, ascending.

40.00 Set a sandstone, 30x9x7 ins., 22 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E. face, U I R on S. face, and raise a mound of stone; 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION. Cont'd.

CHAINS	
	Ascend abruptly.
80.00	Set a sandstone, 26x8x8 ins., 19 ins. in the ground, for 49th mile cor., marked 49M on E. face, UIR on S. face, and UFR on N. face, and raise a mound of stone, 3 ft. base 2 ft. high, south of cor. Pits impracticable. Land, mountainous. Soil, rocky, fourth rate. No timber. Mountainous land, 80.00 chs.
	50th MILE.
	N. $84^{\circ}30'W.$ on 50th mile, over mountainous land, broken ledges, and loose slide rock, ascending.
15.60	Set a sandstone, 30x14x8 ins., 22 ins. in the ground, for an angle cor. marked \angle UIR on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high S. of cor. Pits impracticable. Cor. located on high mountain peak. Descend abruptly over W. slope of peak. Believed to be Mt. Agassiz. Thence $N.45^{\circ}15'W.$
24.40	Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}M$ on SE., face, UIR on SW. face, and raise a mound of stone, 3 ft. base, 2 ft. high SW. of cor. Pits impracticable.
27.20	Set a sandstone, 22x12x8 ins., 16 ins. in the ground, for an angle cor. marked \angle UIR on SW. face, and raise a mound of stone, 3 ft. base, 2 ft. high. SW. of cor. Thence $N.76^{\circ}W.$
30.00	Bottom of descent Ascend.
37.20	Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for the 50th mile cor., which is also an angle cor, marked 50M on E. \angle UIR on S. and UFR on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.

NORTH BOUNDARY OF UNIT H T ITIN RESERVATION C.M.T.D.

CHAINS

Land, mountainous.

Soil, rocky, fourth rate.

No timber.

Mountainous land, 60.00 chs.

June 19; 12 h. 00 m. noon, 1 m. t., at the 50th mile cor., I set off $23^{\circ} 26'$ N. on the decl. arc, and observed the sun on the meridian.

Resulting lat. is $40^{\circ} 45'$ N.

51st MILE.

N. 86° W. on 51st mile, over mountainous land, covered with loose slide rock.

Ascend.

40.00 Set a sandstone, 28x13x7 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor, which is also an angle cor., marked $\frac{1}{2}$ M on E.,
 \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high S. of cor.

Pits impracticable.

Thence S. 64° W.

Descend over slide rock.

40.00 Set a sandstone, 28x8x8 ins., 21 ins. in the ground, for 51st mile cor, which is also an angle cor, marked 51 M on E.,
 \angle U I R on S., and
U F R on N. face and raise a mound of stone, 3 ft. base, 2 ft. high. S. of cor.

Pits impracticable.

Land, mountainous.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	Soil rocky, fourth rate.
	No timber.
	Mountainous land, 80.00 chs.

	52d Mile
	" N 84° 00' W., on 52d mile, over mountainous land, covered with loose slide rock, descending.
20.40	Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for an angle cor., marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Thence N. 78° 30' W.
19.60	Set a sandstone, 36x8x7 ins., 27 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., and U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Cor. located on low pass, bears N. and S. Ascend over slide rock.
26.10	Set a sandstone, 28x12x9 ins., 21 ins. in the ground, for an angle cor., marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Thence S. 48° 15' W.
33.50	Set a sandstone, 28x12x8 ins., 21 ins. in the ground, for 52d mile cor., which is also an angle cor., marked 52 M on NE., \angle U I R on SE. face, and U F R on NW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky, fourth rate.
	No timber.
	Mountainous land 80.00 chs.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

53d Mile

June 20, 1904, at 8 h. 00 m., a. m., l. m. t., I set off
23° 27' N. on the decl. arc, 40° 45' N. on the lat. arc
and determined the meridian with the solar at the 52d
mile cor. Thence I run,
West, over mountainous land, covered with loose slide
rock, ascending.

11.50 Set a sandstone, 26x14x6 ins., 19 ins. in the ground,
for an angle cor., marked \angle U I R on S. face, and raise
a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.

Thence N. 64° 30' W.

3.50 Descend.

22.50 Ascend.

28.50 Set a sandstone, 26x12x9 ins., 19 ins. in the ground,
for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on E. face, U I R on S.
face, and raise a mound of stone, 3 ft. base, 2 ft. high
S. of cor.

Pits impracticable.

Continue ascent.

46.20 Set a sandstone, 32x9x6 ins., 24 ins. in the ground, for
an angle cor., marked \angle U I R on S. face, and raise a
mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Thence S. 70° W. Descend.

4.30 Pass in ridge, bears NW. and SE. Ascend abruptly over
cliffs, 200 ft. high.

22.30 Set a sandstone, 30x9x8 ins., 22 ins. in the ground, for
53d mile cor., marked 53 M on E., U I R on S/, and U F R
on N. face, and raise a mound of stone, 3 ft. base, 2 ft!
high, S. of cor.

Pits impracticable.

Land mountainous.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

Soil rocky, fourth rate.

No timber.

Mountainous land, 80.00 chs.

54th mile.

S. 70° W., on 54th mile, over mountainous land, covered with loose slide rock, ascending.

34.60 Set a sandstone, 26x12x8 ins., 19 ins. in the ground, for an angle cor., marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Thence S. $49^{\circ} 45'$ W. Descend gradually.

5.40 Set a sandstone, 27x10x8 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on NE. face, U I R on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high SE. of cor.

Pits impracticable.

Descend abruptly over slide rock and broken ledges.

41.40 Pass, bears N. and S. Ascend.

45.40 Set a sandstone, 36x12x10 ins., 27 ins. in the ground, for 54th mile cor., marked 54 M on NE. face, U I R on SE. face, and U F R on NW. face, and raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor.

Pits impracticable.

Land mountainous.

Soil rocky, fourth rate.

No timber,

Mountainous land, 80.00 chs.

June 20th, at 12 h., 00 m., noon, l. m. t., at the 54th mile cor., I set off $23^{\circ} 27'$ N. on the decl. arc, and observed the sun on the meridian. The resultant lat. is $40^{\circ} 45'$ N.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

55th mile.

S. $49^{\circ} 45'$ W. on 55th mile, over mountainous land, covered with loose slide rock, ascending.

9.40 Set a sandstone, 30x10x8 ins., 22 ins. in the ground, for an angle cor., marked \angle U I R on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.

Pits impracticable.

Thence S. 70° W.

13.00 Set a sandstone, 28x12x7 ins., 21 ins. in the ground, for an angle cor., marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Thence S. $74^{\circ} 30'$ W.

17.60 Set a sandstone, 32x8x8 ins., 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E. face, U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

28.50 Set a sandstone, 30x8x8 ins., 22 ins. in the ground, for an angle cor., marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Thence S. $30^{\circ} 30'$ W.

4.00 Top of high peak, descend.

7.70 Set a sandstone, 24x12x9 ins., 18 ins. in the ground, for an angle cor., marked, \angle U I R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.

Pits impracticable.

Thence S. $53^{\circ} 30'$ W.

21.40 Set a sandstone, 28x10x10 ins., 21 ins. in the ground, for 55th mile cor., marked 55 M on NE., U I R on SE., and U F R on NW. face, and raise a mound of stone, 3 ft.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

base, 2 ft. high, S. of cor.

Pits impracticable.

Land mountainous.

Soil rocky, fourth rate.

No timber.

" Land mountainous, 80.00 chs.

56th mile.

S. $53^{\circ} 30'$ W., on 56th mile, over mountainous land, covered with loose slide rock, descending.

40.00 Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M pn NE. face, U F R on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high S.E. of cor.

Pits impracticable.

Descend abruptly.

51.00 Pass in ridge, bears NW. and SE.

Ascend.

80.00 Set a sandstone, 27x10x8 ins., 21 ins. in the ground, for 56th mile cor., marked 56 M. on NE. U I R on SE., and U F R on NW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.

Pits impracticable.

Mountainous land.

Soil rocky; 4th rate.

No timber.

Mountainous land, 80.00 chs.

June 20, 1904.

57th Mile

June 21st, at 8 h. 00 m., a. m., l. m. t., I set off $23^{\circ} 27'$ N. on the decl. arc, $40^{\circ} 44'$ N. on the lat. arc, and determined a meridian with the solar at the 56th mile cor.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

- Thence I run S. $53^{\circ} 30'$ W., on the 57th mile, over mountainous land, covered with loose slide rock, descending.
- 25.00 Pass in ridge, bears N. and S. Ascend.
- 40.00 Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on NE face, U I R on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.
- Pits impracticable.
- Ascend abruptly over broken ledges.
- 80.00 Set a sandstone, 28x9x8 ins., 21 ins. in the ground, for 57th mile cor., marked 57 M on NE., U I R on SE., and U F R on NW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.
- Pits impracticable.
- Land mountainous.
- Soil rocky, fourth rate.
- No timber?
- Mountainous land, 80.00 chs.
-
- 58th Mile.
- S. $53^{\circ} 30'$ W., on 58th Mile, over mountainous land, covered with loose slide rock and broken ledges, ascend abruptly.
- 22.00 Set a sandstone, 30x12x9 ins., 22 ins. in the ground, for an angle cor., marked \angle U I R on SE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.
- Pits impracticable.
- Cor. located on high peak.
- Thence N. $50^{\circ} 30'$ W
- Descend.
- 18.00 Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on SE. face, U I R on SW.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS	
	face, and raise a mound of stone, 3 ft. base, 2 ft. high SW. of cor.
	Pits impracticable.
	Descend abruptly over broken ledges and slide rock.
58.00	Set a sandstone, 28x12x6 ins., 21 ins. in the ground, for 58th mile cor., marked 58 M on SE/, U I R on SW., and U F R on NE. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor.
"	Pits impracticable.
	Land mountainous.
	Soil rocky, fourth rate.
	No timber.
	Mountainous land, 80.00 chs.
	June 21st, at 12 h., 00 m., noon, l. m. t., I set off $23^{\circ} 27'$ N. on the decl. arc, and observed the sun on the meridian at the 58th mile cor. Resultant lat. $40^{\circ} 43'$ N.

59th Mile.

	N. $50^{\circ} 30' W$
	on 59th mile, over mountainous land, covered with loose slide rock, descend.
3.00	Pass in ridge, bears NE and SW ascend abruptly.
12.00	Top of steep ascent, ascend gradually.
40.00	Set a sandstone, 28x12x6 ins., 21 ins in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on SE. face, U I R on SW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor.
	Pits impracticable.
50.00	Descend.
67.00	Descend abruptly over slide rock and broken ledges.
80.00	Set a sandstone, 30x9x7 ins., 22ins. in the ground, for 59th mile cor., marked 59 M on E. face, U I R on S.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

face, and U F R on N. face, and raise a mound of stone
3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Cor. located on pass in ridge, bears NE. and SW.

Land mountainous.

Soil rocky, fourth rate.

No timber.

Mountainous land, 80.00 chs.

60th Mile.

N. $50^{\circ}30'W.$

on the 60th mile, over mountainous land, covered with
loose slide rock, ascending.

1.20 Set a sandstone, 32x10x6 ins., 24 ins. in the ground,
for an angle cor., marked \angle U I R on S. face, and raise
a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Thence S. $3^{\circ}45'W.$ Descend over broken ledges.

31.00 Set a sandstone, 26x10x8 ins., 19 ins. in the ground,
for an angle cor., marked \angle U I R on SE. face, and
raise a mound of stone, 3 ft. base, 2 ft. high, SE. of
cor.

Pits impracticable.

Thence S. $83^{\circ}W.$

7.00 Enter pine timber, bears N. and S.

7.80 Set a sandstone, 24x12x8 ins., 18 ins. in the ground,
for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., and U I R on S. face,
from which

A pine, 10 ins. diam., bears S. $40^{\circ}E.$, 59 lks.,
dist., marked $\frac{1}{2}$ M U I R B T.

A pine, 20 ins. diam., bears N. $36^{\circ}E.$, 45 lks.,
dist., marked $\frac{1}{2}$ M U F R B T.

A pine, 32 ins dia., bears N. $50^{\circ}W.$,
53 lks. dist., marked $\frac{1}{2}$ M U F R B T.

A pine, 10 ins. dia., bears S. $28^{\circ}W.$,
39 lks. dist., marked $\frac{1}{2}$ M U I R B T.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd,

CHART'S

- 24.80 Set a sandstone, 26x9x8 ins., 19 ins. in the ground, for an angle cor., marked \angle UIR on S. face, from which
 A pine, 12 ins. diam., bears S. 33° E.,
 25 lks. dist., marked \angle U I R B T.
 A pine, 12 ins. diam., bears N. 15° E.,
 39 lks. dist., marked \angle U F R B T.
 A pine, 16 ins. diam., bears N. 62° E.,
 84 lks. dist., marked \angle U F R B T.
 A pine, 20 ins. diam., bears S. 80° W.
 34 lks. dist., marked \angle U I R B T.
 Thence N. $80^{\circ} 30' W.$
- 5.70 Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for an angle cor., marked \angle U I R on S. face, from which
 A pine, 23 ins., diam., bears S. 71° E.,
 120 lks. dist., marked \angle U I R B T.
 A pine, 12 ins. diam., bears N. 32° E.,
 36 lks. dist., marked \angle U F R B T.
 A pine, 30 ins. diam., bears N. 48° E.,
 53 lks. dist., marked \angle U F R B T.
 A pine, 14 ins. diam., bears S. 2° E.,
 67 lks. dist., marked \angle U I R B T.
 Thence N. $52^{\circ} 30' W.$
- 17.30 Set a sandstone, 24x10x8 ins., 18 ins. in the ground, for 60th mile cor., marked 60 M on SE. face, UIR on SW. face, and UFR on NE. face; from which,
 A pine, 18 ins. diam., bears S. 2° E.,
 35 lks. dist., marked 60 M U I R B T.
 A pine, 16 ins. diam., bears N. 44° E.,
 57 lks. dist., marked 60 M U F R B T.
 A pine, 32 ins. diam., bears N. 40° W.
 45 lks. dist., marked 60 M U F R B T.
 A pine, 14 ins. diam., bears S. 20° W.,
 73 lks. dist., marked 60 M U I R B T.
 Land, mountainous.
 Soil, rocky and gravelly; 3rd and 4th rate.
 Timber, scattering pines, 41 chs.
 Mountainous land, 80.00 chs.

June 21, 1904.

61st MILLE.

June 22, 1904: At 8 h. 00 m. a. m., l. m. t., I set off
 $23^{\circ} 27'$ N., on the decl. arc; $40^{\circ} 44'$ N., on the lat. arc;

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

- | CHAINS | |
|--------|--|
| | and determine a meridian with the solar on the 60TH mile cor. Thence I run, N. $52^{\circ}30'$ W. on 61st mile.
Over mountainous land, through scattering pine timber, ascending. |
| 34.00 | Set a sandstone, 26x12x8 ins., 19 ins. in the ground for an angle cor., marked \angle UIR on S. face, from which

A pine, 10 ins. diam., bears S. 87° W.,
29 lks. dist., marked \angle U I R B T.

A pine, 15 ins., diam., bears N. 73° E.,
45 lks. dist., marked \angle U F R B T.

A pine, 20 ins. diam., bears N. 10° E.,
73 lks. dist., marked \angle U F R B T.

A pine, 16 ins., diam., bears S. 23° W.,
30 lks. dist., marked \angle U I R B T.

Thence N. 83° W. |
| 6.00 | Set a sandstone, 26x12x8 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on E. face, UIR on S. face, from which

A pine, 18 ins., diam., bears N. 14° E.,
30 lks. dist., marked $\frac{1}{2}$ M U F R B T.

A pine, 24 ins., diam., bears S. 82° E.,
110 lks. dist., marked $\frac{1}{2}$ M UIR B T.

A pine, 10 ins., diam., bears S. 18° W.,
150 lks. dist., marked $\frac{1}{2}$ M U I R B T.

A pine, 14 ins. diam., bears N. 60° W.,
43 lks. dist., marked $\frac{1}{2}$ M UFR B T. |
| 12.00 | Leave scattering pines, and ascend over slide rock. |
| 39.00 | Set a sandstone, 24x9x8 ins., 18 ins. in the ground, for an angle cor. marked \angle WIR on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable.

Thence S. $81^{\circ} 45'$ W. |
| | Descend over slide rock. |
| 7.00 | Set a sandstone, 28x12x6 ins., 21 ins. in the ground for 61st mile cor. marked 61 M. on E. face, UIR on S. face, and UFR on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
Pits impracticable. |

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

Land mountainous.

Soil rocky, fourth rate.

Timber, scattering pines, 46.00 chs.

Mountainous land, 80.00 chs.

62d Mile

S. $81^{\circ} 45'$ W. on 62d mile, over mountainous land covered with heavy slide rock. Descend.

16.00 Enter scattering pine timber. Bears N. and S.

36.00 Leave scattering pine timber, bears N. and S. Ascend over slide rock.

40.00 Set a sandstone, 26x9x8 ins., 19 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E. face, and U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Descend.

44.00 Set a sandstone, 26x10x8 ins., 19 ins. in the ground, for an angle cor., marked \angle U I R on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Pits impracticable.

Cor. located on pass in ridge.

Thence S. $22^{\circ} 45'$ W. Ascend.

20.00 Set a sandstone, 26x9x8 ins., 19 ins. in the ground, for an angle cor., marked \angle U I R on E. face, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.

Pits impracticable.

Cor. located on high rocky spur, projecting SW.

Thence, S. $57^{\circ} 07'$ E.

7.00 Edge of high rocky ridge, projecting SW. Descend abruptly.

16.00 Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for 62d mile cor., marked 62 M on NW. face, U I R on

NORTH BOUEDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CHAINS

NE. face, and U F R on SW. face, and raise a mound of stone, 3 ft. base, 2 ft. high, NE. of cor.

Pits impracticable.

Land mountainous.

Soil rocky, fourth rate.

Timber, scattering pine 20.00 chs.

Mountainous land, 80.00 chs.

June 22d, at 12 h., 00 m., noon, l. m. t., I set off $23^{\circ} 27'$ N. on the decl. arc, and observed the sun on the meridian at the 62d mile cor. Resultant lat. is $40^{\circ} 44'$ N.

-----P-----

63d Mile.

S $57^{\circ} 07'$ E

on 63rd mile over mountainous land covered with loose slide rock, descend abruptly.

- 4.00 Leave slide rock enter dense pine timber bears S.E. and NW. Descend gently.
- 18.00 Low pass in ridge.
A lake containing about 25 acres located 1.00 ch.east of line.
A lake containing about 5 acres located 1.00 ch.W. of line.
- 20.90 Point for angle corner falls on rock in place 40x12x10 ins. above ground, marked a cross (X) at the corner point and chiseled \angle UIR N.E. of cross for angle corner, from which A pine 7ins.in diam.bears N. 27° W 50.links dist. marked \angle UIR.ET
A pine 8'ins. diam. bears S 57° W 65 links dist. marked \angle U FR BT
A pine 6 ins. diam.bears east 80 links dist. marked \angle UIR BT
A pine 7 ins diam.bears N 23° W 81 links dist. marked \angle UFR FT

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

- CHAINS Thence S $36^{\circ} 30' E$
- 11.80 Set a sandstone 20x14x10 ins. 15 ins.in the ground for an angle corner marked \angle UIR on E.face from which
A pine 12 ins.diam.bears N $61^{\circ} E 68$ links dist.marked \angle UIR BT
A pine 6 ins. diam. bears S $56^{\circ} W$ 78 links dist. marked \angle UFR BT
A pine 8ins.diam. bears S $68^{\circ} W$ 86 links dist.marked \angle UFR BT
A pine 7ins.diam. bears N $33^{\circ} E$ 95 links dist.marked \angle UIR BT
Thence S. $4^{\circ} 15' E$.
- 7.30 Set a sandstone 20x11x9 ins.15 ins.in the ground for $\frac{1}{2}$ mile cor. marked $\frac{1}{2}$ M on N. face UIR on east face from which
A pine,18 ins. diam. bears N. $61^{\circ} 30' W$ 80 links dist. marked $\frac{1}{2}$ M. UFR BT
A pine 14 ins. diam. bears N. $17^{\circ} E$. 50 links dist. marked $\frac{1}{2}$ M UIR BT
A pine 8 ins in diam bears S. $80^{\circ} E$ 85 links dist.marked $\frac{1}{2}$ M UIR BT
A pine 9 ins in diam.bears S. $36^{\circ} W$.96 links dist. marked $\frac{1}{2}$ M UFR BT
- 16.20 Set a sandstone 24x10x8 ins 18 ins. in the ground for an angle cor.marked \angle UIR on east face from which
A pine 10 ins.diam.bears S $72^{\circ} E$.34 lks.dist.marked \angle UIR BT
A pine 15 ins.diam.bears N. $42^{\circ} W$.56 links dist.marked \angle UFR BT
A pine 9 ins diam.bears N $66^{\circ} E$ 85 lks.dist. marked \angle UIR BT
A pine 8 ins diam.bears N $27^{\circ} W$ 90 lks. dist. marked \angle UFR BT
Thence S $72^{\circ} W$.
- 10.00 A lake containing about 3 acres 3.00 chs. north of line.
- 13.60 Set a sandstone 24x10x8 ins 18 ins in the ground for an angle cor.marked \angle UIR on S.face,from which
A plne 8 ins.in diam.bears N $18^{\circ} E$ 67 lks.dist.marked \angle UFR BT
A pine 7 ins.diam. bears S $40^{\circ} 30' W$ 26 lks.dist.marked \angle UIR BT
A pine 8 ins diam.bears N $60^{\circ} W$ 85 lks.dist.marked \angle UFR BT
A plne 6 ins.diam. bears S $36^{\circ} E$ 75 lks.dist.marked \angle UIR BT
Thence N $81^{\circ} 00' W$
- 17.50 Set a sandstone 20x12x8 ins.15 ins.in the ground for 63 mile.cor.which is also an angle cor marked 63M on E.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION, Cont'd.

CLAIM:

UIR on S. and UFR on N. face, from which
A pine 16 ins. diam. bears NNE $^{\circ}$ E. 300 lks. dist.

marked GSN \wedge UFR BT

A pine 6 ins diam.bears S 15 $^{\circ}$ W 30 links dist.

marked GSX \wedge UIR BT

A pine 8 ins. diam.bears S 45 $^{\circ}$ E 95 links dist.

marked GSX \wedge UIR BT

A pine 7 ins.diam. bears WSW $^{\circ}$ 240 links dist.

marked GSX \wedge UFR BT

Land mountainous

Soil rocky, 4th. rate.

Tinder Dense pine 76.00 cha.

Mountainous land 80.69 chains

64th. Mile.

S 46 $^{\circ}$ 00' W

on 64th mile over mountainous land through dense pine
timber descending

5.00

Low pass. Head of Weber river drains N.W.

Head of Duchenne river drains S.E.

20.00

Lake containing about 25 acres 5.00 cha. S. of line.

40.00

Set a sandstone 20x14x12 ins. 16 ins in the ground
for $\frac{1}{2}$ K cor. marked $\frac{1}{2}$ K on N.E. face UIR on S.E. face
from which A pine 10 ins. diam.bears N 42 $^{\circ}$ W 53 links

dist. marked $\frac{1}{2}$ K UFR BT

A pine 30 ins. diam.bears N 16 $^{\circ}$ 30' E 13 links
dist. marked $\frac{1}{2}$ K UIR BT

A pine 8 ins. diam.bears S 25 $^{\circ}$ W 20 links
dist. marked $\frac{1}{2}$ K UFR BT

A pine 8 ins diam. bears S 36 $^{\circ}$ E 28 links
dist. marked $\frac{1}{2}$ K UIR BT

54.00

Set a sandstone 24x10x6 ins. 18 ins. in the ground for
an angle cor. marked $\frac{1}{2}$ UIR on E. face, from which

A pine, 14 ins. diam., bears S. 78 $^{\circ}$ W.
39 lks. dist., marked $\frac{1}{2}$ UFR BT.

NORTH BOUNDARY OF UNTAH INDIAN RESERVATION. Cont'd,

CHAINS	A pine, 6 ins. diam., bears N. 63° E., 64 lks, dist., marked \angle UIR BT. A pine, 8 ins. diam., bears N. 75° E., 95 lks. dist., marked \angle U I R B T. A pine, 10 ins. diam. bears N. 20° W. 85 lks. dist., marked \angle U F R B T. Thence S. $6^{\circ} 49'$ W.
15.00	Leave timber bears E. and W. Ascend over slide rock.
25.50	Set a sandstone 24x10x8 ins., 18 ins. in the ground for 64th mile cor, marked 64 M on N. face, UIR on E. face, and UFR on W. face, and raise a mound of stone 3 ft. base, 2 ft. high, E. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 4th rate. Timber, dense pine on 69.50 chs.
	Mountainous land on 80.00 chs.
<hr/>	
	65th MILE.
	S. $6^{\circ} 49'$ W. on 65th mile, over mountainous land covered with loose slide rock, Ascend abruptly.
27.40	The NW. cor. of Uintah Indian Reservation, as estab- lished by Arthur H. Brown. Which is a sandstone 12x18x6 ins. above ground marked and witnessed as described by Deputy Arthur H. Brown. I chiseled upon the N. face of cor. 64 M 27.4 chs. Land mountainous. June 22, 1904 Soil rocky; 4th rate. No timber. Mountainous land on 27.40 chs. June 22, 1904.

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EAST AND NORTH BOUNDARIES OF THE UNTAH INDIAN RESERVATION.

GENERAL DESCRIPTION

The East Boundary of the Uintah Indian Reservation, starting at the 23d mile corner, begins in scattering cedars, in the foothills of the Uintah Mountains, and follows closely the water-shed of Ashley Creek and its tributaries on the east, and the Uintah River and its tributaries on the West, until the 30th mile corner is reached. Here I leave the water-shed, in order that I may close on the old established 31st mile corner, which is about two miles west of the water-shed. The boundary between the 31st and the 37th mile corners is about two miles west of the water-shed throughout, and cannot be changed, on account of T 3 S, R 19 E, S L B and M closing upon it. I then run for the true water-shed of the reservation, which I reach at my 39th mile corner. From there the east boundary follows closely the divide through heavy pine timber until the 55th mile corner is reached. Here the divide is high, and covered with loose slide rock to the N E corner of the reservation.

I begin the North Boundary at the N E corner of the reservation, and run in a westerly direction along the main divide, at an elevation of about 11,500 feet. The north boundary is extremely rough, being covered throughout with slide rock and large boulders. There is some heavy timber between the 60th mile corner on the north boundary and the N W corner of the Reservation. The foothills mentioned above, along the east boundary, are fairly good for grazing, but after reaching the 55th mile corner on the east boundary, there is no vegetation whatever until the 60th mile corner on the north boundary is reached, the stock used for packing being taken into the Uintah Forest Reserve for feed.

60

EAST AND NORTH BOUNDARIES OF THE UNTAN INDIAN RESERVATION.

Snow covers some of the peaks the entire year. Many evidences of glacial action can be seen along the north boundary.

There is a coal mine on the Reservation, along the east boundary near the 35th mile corner. There are also evidences of copper near the N E corner of the Reservation. With these exceptions, we noticed no mineral.

Many lakes are located along the boundary on either side. I was unable to definitely locate those Mountain Peaks called for in the instructions which are not mentioned in these notes.

Fred M Brown

U.S. Deputy Surveyor

There being no Notary Public or other officer authorized to administer oaths, within a reasonable distance at either the beginning or ending of this survey; in order to save time and expense, I administer the preliminary and final oaths myself.

Fred M Brown

U.S. Deputy Surveyor

LATITUDES AND DEPARTURES

O F

EAST BOUNDARY OF UNTAH INDIAN RESERVATION, PREVIOUSLY SURVEYED.

Line Designated	True Bearing	Dist.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
From Initial Point to 11th mile cor.	N.23°W.	880.00	810.04	.....	.....	343.
From 11th mile cor. to S.Bdy.T.2 S.R.2 E.	N.23°W.	27.23	25.06	.....	.....	10.
S.Bdy.T.2 S.R.2 E.	West	263.32	.....	.....	.....	263.
W.Bdy.T.2 S.R.2 E.	N.0°09'W.	481.60	481.60	.....	.....	1.
From NW.cor.T.2 S. R.2 E. to 19th mile cor.	N.19°E.	85.40	80.75	.....	27.80	....
From 19th to 20th mi.	N.25°E.	80.00	72.50	.....	33.81	....
From 20th to 21st mi.	N.35°E.	80.00	65.53	45.89
From 21st to 23d mi.	N.40°E.	160.00	122.56	102.85
Totals		1658.04	210.35	619.	

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LATITUDES AND DEPARTURES OF EAST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDES		DEPARTURES	
				Chs.	Chs.	Chs.	Chs.
From 23d to 24th	M.	N.39°30'E.	40.00	30.86		25.45	
" 23d "	24th "	N.11°00'W.	40.00	39.27		7.63	
" 24th "	25th "	N.18°00'E.	80.00	76.08		24.72	
" 25th "	26th "	N.18°00'E.	80.00	76.08		24.72	
" 26th "	27th "	N.18°00'E.	40.00	58.04		12.36	
" 26th "	27th "	N.12°30'W.	40.00	39.05		8.66	
" 27th "	28th "	N.31°00'E.	60.00	51.43		30.90	
" 27th "	28th "	N.55°45'E.	20.00	11.25		16.53	
" 28th "	29th "	N.55°45'E.	17.80	10.02		14.71	
" 28th "	29th "	N.19°15'E.	62.20	58.71		20.50	
" 29th "	30th "	N.19°15'E.	16.20	15.30		5.35	
" 29th "	30th "	N.24°00'E.	63.80	58.29		25.95	
" 30th "	31st "	N.83°36'W.	224.48	25.02		223.08	
" 31st "	32d "	N.10°00'W.	19.02	18.72		3.30	
" 31st "	32d "	N.22°00'E.	61.08	56.64		22.88	
" 32d "	33d "	N.22°00'E.	40.00	57.09		14.98	
" 32d "	33d "	N.55°00'W.	40.00	22.94		32.77	
" 33d "	34th "	N.70°00'W.	80.04	27.38		75.21	
" 34th "	35th "	N.83°00'W.	80.04	9.75		79.44	
" 35th "	36th "	N.76°00'W.	80.04	19.37		77.67	
" 36th "	37th "	N.76°00'W.	80.04	19.36		77.66	
" 37th "	38th "	N.72°00'W.	80.00	24.72		76.08	
" 38th "	39th "	N.72°00'W.	80.00	24.72		76.08	
" 39th "	40th "	N.19°30'E.	80.00	75.42		26.70	
" 40th "	41st "	N.19°30'E.	19.70	18.56		6.57	
" 40th "	41st "	N. 3°00'E.	16.30	16.28		.85	
" 40th "	41st "	N.17°00'W.	41.00	39.21		11.99	
" 40th "	41st "	N.42°30'E.	3.00	2.21		2.03	
" 41st "	42d "	N.42°30'E.	49.30	36.34		33.30	
" 41st "	42d "	N.27°00'W.	9.80	8.73		4.45	
" 41st "	42d "	N.48°45'W.	7.40	4.88		5.56	
" 41st "	42d "	N. 6°30'W.	7.60	7.55		.86	
" 41st "	42d "	N. 4°45'E.	5.90	5.88		.48	
" 42d "	43d "	N.32°15'W.	26.00	21.99		13.87	
" 42d "	43d "	N.71°15'W.	38.30	12.31		36.27	
" 42d "	43d "	N.12°45'W.	9.90	9.66		2.18	
" 42d "	43d "	N.18°45'W.	5.80	5.49		1.86	
" 43d "	44th "	N.64°15'W.	3.10	1.35		2.79	
" 43d "	44th "	N.65°45'W.	76.90	31.58		70.11	
" 44th "	45th "	N.55°15'W.	15.40	8.78		12.65	
" 44th "	45th "	N.40°45'E.	64.60	48.94		42.17	
" 45th "	46th "	N.40°45'E.	65.00	49.24		42.43	
" 45th "	46th "	N.24°15'W.	15.00	13.68		6.16	
" 46th "	47th "	N.24°15'W.	80.00	72.93		32.85	
" 47th "	48th "	N.24°15'W.	54.00	49.24		22.18	
" 47th "	48th "	N.27°45'E.	16.00	14.16		7.45	
" 47th "	48th "	N.39°15'W.	10.00	7.74		6.35	
" 48th "	49th "	N.39°15'W.	26.00	20.14		16.45	
" 48th "	49th "	N.00°15'E.	54.00	54.00		.24	
" 49th "	50th "	N.00°15'E.	60.00	60.00		.26	
" 49th "	50th "	N. 8°45'W.	12.00	11.86		1.82	
" 49th "	50th "	N.30°45'W.	8.00	6.87		4.09	
" 50th "	51st "	N.30°45'W.	60.00	51.56		30.68	
" 50th "	51st "	N.88°15'W.	20.00	.61		19.99	
" 51st "	52d "	S.61°15'W.	20.00		9.62	17.58	
" 51st "	52d "	N.64°15'W.	60.00	26.06		54.05	
" 52d "	53d "	N.64°15'W.	40.00	17.38		36.02	
" 52d "	53d "	N.36°00'W.	40.00	32.36		23.52	
" 53d "	54th "	N.36°00'W.	57.20	46.27		33.62	
" 53d "	54th "	N.61°00'E.	22.80	11.05		19.95	

TOTALS FORWARD,

1690.40 9.62 421.48 1205.47

LATITUDES AND DEPARTURES OF EAST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDES			DEPARTURES		
				N.	S.	E.	W.	Chs.	Chs.
Footings Brought Forward,			1690.40					9.62	421.48 1205.97
From 54th to 55th M.		N. 61°00'E.	16.00	7.76				13.99	
" 54th "	55th "	N. 9°45'E.	58.00	57.16				9.82	
" 54th "	55th "	N. 28°15'W.	6.00	5.29				2.84	
" 55th "	56th "	N. 28°15'W.	8.00	7.05				3.79	
" 55th "	56th "	N. 27°45'E.	62.00	54.87				28.87	
" 55th "	56th "	N. 43°15'W.	10.00	7.28				6.85	
" 56th "	57th "	N. 43°15'W.	40.00	29.14				27.41	
" 56th "	57th "	N. 42°45'E.	40.00	29.37				27.15	
" 57th "	58th "	N. 42°45'E.	70.00	51.40				47.52	
" 57th "	58th "	N. 3°15'W.	10.00	9.98				.57	
" 58th "	59th "	N. 3°15'W.	40.00	39.94				2.27	
" 58th "	59th "	N. 57°45'E.	40.00	21.34				33.83	
" 59th "	60th "	N. 57°45'E.	40.00	21.35				33.83	
" 59th "	60th "	N. 32°00'E.	40.00	33.91				21.20	
60th to N.E. Cor: of Reservation,		N. 32°00'E.	20.00	16.96				10.60	
TOTAL Lat. and Dep. of East Boundary,			2083.20					9.62	684.29 1209.20

LATITUDES AND DEPARTURES OF NORTH BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIST. chis.	LATITUDES		DEPARTURES.	
				N. chs.	S. chs.	E. chs.	W. chs.
NE.cor. to 1st.M.		N.45°15'W.	80.00	56.32			56.82
From 1st. to 2d "		N.45°15'W.	10.00	7.04			7.10
From 1st to 2d "		N.82°15'W.	70.00	9.44			69.36
" 2d " 3d "		N.60°00'W.	80.00	40.00			69.28
" 3d " 4th "		N.60°00'W.	80.00	40.00			69.28
" 4th " 5th "		S.73°45'W.	40.00		11.19		38.40
" 4th " 5th "		N.74°45'W.	40.00	10.53			38.60
" 5th " 6th "		N.74°45'W.	80.00	21.04			77.18
" 6th " 7th "		N.74°45'W.	80.00	21.04			77.18
" 7th " 8th "		N.74°45'W.	40.00	10.52			38.59
" 7th " 8th "		S.51°45'W.	40.00		24.75		31.40
" 8th " 9th "		S.51°45'W.	40.00		24.76		51.41
" 8th " 9th "		N.88°15'W.	40.00	1.22			59.98
" 9th " 10th "		N.88°15'W.	80.00	2.43			79.97
" 10th " 11th "		N.88°15'W.	10.00	0.31			10.00
" 10th " 11th "		S.67°45'W.	70.00		26.51		64.79
" 11th " 12th "		N.89°15'W.	20.00	0.26			20.00
" 11th " 12th "		N.63°45'W.	60.00	26.54			53.82
" 12th " 13th "		N.63°45'W.	40.00	17.69			35.87
" 12th " 13th "		S.86°15'W.	40.00		2.62		39.91
" 13th " 14th "		S.86°15'W.	80.00		5.24		79.83
" 14th " 15th "		S.86°15'W.	40.00		2.62		39.91
" 14th " 15th "		N.51°15'W.	40.00	25.04			31.20
" 15th " 16th "		N.62°45'W.	80.00	36.63			71.12
" 16th " 17th "		N.74°00'W.	8.00	2.21			7.69
" 16th " 17th "		S.73°00'W.	52.00		9.36		30.60
" 16th " 17th "		N.67°00'W.	40.00	15.63			36.82
" 17th " 18th "		N.67°00'W.	38.00	14.85			34.98
" 17th " 18th "		S.50°00'W.	15.00		9.64		11.49
" 17th " 18th "		N.76°30'W.	27.00	6.30			26.25
" 18th " 19th "		N.76°30'W.	73.00	17.04			70.99
" 18th " 19th "		N.69°00'W.	7.00	2.51			6.54
" 19th " 20th "		N.69°00'W.	62.00	22.22			57.88
" 19th " 20th "		S.72°45'W.	18.00		5.34		17.19
" 20th " 21st "		S.72°45'W.	66.00		19.57		63.03
" 20th " 21st "		S.74°45'W.	14.00		3.68		13.51
" 21st " 22nd "		S.74°45'W.	80.00		21.05		77.18
" 22d " 23d "		S.74°45'W.	80.00		21.04		77.18
" 23d " 24th "		S.74°45'W.	18.00		4.73		17.37
" 23d " 24th "		S.80°45'W.	26.00		4.18		25.66
" 23d " 24th "		N.71°30'W.	36.00	11.42			34.14
" 24th " 25th "		N.71°30'W.	27.00	8.57			25.60
" 24th " 25th "		S.64°00'W.	33.00		14.47		29.66
" 24th " 25th "		S.20°00'W.	20.00		18.79		6.84
" 25th " 26th "		S.20°00'W.	56.00		52.63		19.15
" 25th " 26th "		S.14°00'E.	24.00		23.29	5.80	
" 26th " 27th "		S.14°00'E.	4.30		4.17	1.04	
" 26th " 27th "		S.22°15'W.	75.70		70.06		28.67
" 27th " 28th "		S.22°15'W.	12.00		11.11		4.54
" 27th " 28th "		N.73°00'W.	28.00	8.19			26.78
" 27th " 28th "		S.73°00'W.	40.00		11.70		38.25
" 28th " 29th "		S.73°00'W.	3.60		1.05		3.44
" 28th " 29th "		N.46°30'W.	6.40	4.40			4.64
" 28th " 29th "		S.86°00'W.	52.38		3.66		52.25
" 28th " 29th "		S.75°45'W.	17.62		4.33		17.08
" 29th " 30th "		S.75°45'W.	40.00		9.84		38.77
" 29th " 30th "		N.58°45'W.	40.00	20.75			34.20
" 30th " 31st "		N.58°45'W.	50.00	25.94			42.75
" 30th " 31st "		S.25°30'W.	30.00		27.51		11.96
" 31st " 32nd "		S.25°30'W.	11.00		10.09		4.39
" 31st " 32nd "		S.34°30'W.	11.50		9.48		6.51
" 31st " 32nd "		S.50°45'W.	45.50		28.79		35.24
" 31st " 32nd "		N.75°30'W.	12.00	3.00			11.62

LATITUDES AND DEPARTURES OF NORTH BOUNDARY
UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDES	DEPARTURES
			Chs.	N. Chs. S. Chs.	E. Chs. W. Chs.
FOOTINGS BROUGHT FORWARD,				489.08 497.25	6.84 2221.84
From 32d to 33d M.		N. 75° 30' W.	73.30	18.36	70.96
" 32d "	33d M.	S. 24° 15' W.	6.70	6.11	2.75
" 33d "	34th M.	S. 24° 15' W.	40.00	36.47	16.43
" 33d "	34th "	N. 77° 00' W.	40.00	9.00	38.97
" 34th "	35th "	N. 77° 00' W.	72.30	16.27	70.44
" 34th "	35th "	S. 28° 30' W.	7.70	6.77	3.67
" 35th "	36th "	S. 28° 30' W.	33.00	29.00	15.75
" 35th "	36th "	S. 47° 15' W.	47.00	31.91	34.51
" 36th "	37th "	S. 47° 15' W.	14.00	9.50	10.28
" 36th "	37th "	S. 60° 00' W.	66.00	33.00	57.15
" 37th "	38th "	S. 60° 00' W.	21.00	10.50	18.19
" 37th "	38th "	N. 1° 30' W.	17.00	16.99	.44
" 37th "	38th "	S. 66° 15' W.	13.80	5.57	12.62
" 37th "	38th "	N. 36° 30' W.	28.20	22.67	16.77
" 38th "	39th "	N. 36° 30' W.	35.00	28.13	20.82
" 38th "	39th "	N. 78° 30' W.	45.00	8.97	44.10
" 39th "	40th "	N. 78° 30' W.	14.50	2.89	14.20
" 39th "	40th "	S. 18° 30' W.	30.50	28.91	9.68
" 39th "	40th "	S. 58° 00' W.	3.00	1.59	2.54
" 39th "	40th "	S. 42° 30' W.	32.00	23.59	21.62
" 40th "	41st "	S. 42° 30' W.	42.00	30.97	28.37
" 40th "	41st "	S. 76° 00' W.	38.00	9.20	36.87
" 41st "	42nd "	S. 76° 00' W.	18.00	4.35	17.47
" 41st "	42d "	N. 42° 00' W.	12.00	8.92	8.02
" 41st "	42d "	N. 20° 00' W.	10.00	9.40	3.42
" 41st "	42d "	N. 57° 00' W.	40.00	21.79	33.54
" 42d "	43d "	S. 35° 15' W.	40.00	32.67	23.09
" 42d "	43d "	WEST	40.00		40.00
" 43d "	44th "	N. 60° 00' W.	80.00	40.00	69.28
" 44th "	45th "	N. 32° 30' W.	17.40	14.68	9.34
" 44th "	45th "	N. 41° 30' W.	24.90	18.64	16.50
" 44th "	45th "	S. 63° 00' W.	37.70	17.11	33.59
" 45th "	46th "	S. 63° 00' W.	4.00	1.82	3.56
" 45th "	46th "	S. 34° 30' W.	76.00	62.63	43.04
" 46th "	47th "	S. 34° 30' W.	37.40	30.82	21.19
" 46th "	47th "	S. 59° 15' W.	42.60	32.99	26.95
" 47th "	48th "	S. 39° 15' W.	21.60	16.72	13.67
" 47th "	48th "	N. 84° 30' W.	58.40	5.59	58.13
" 48th "	49th "	N. 84° 30' W.	80.00	7.66	79.63
" 49th "	50th "	N. 84° 30' W.	15.60	1.50	15.53
" 49th "	50th "	N. 45° 15' W.	27.20	19.15	19.31
" 49th "	50th "	N. 76° 00' W.	37.20	9.00	36.09
" 50th "	51st "	N. 86° 00' W.	40.00	2.79	39.90
" 50th "	51st "	S. 64° 00' W.	40.00	17.54	35.95
" 51st "	52d "	N. 84° 00' W.	20.40	2.13	20.29
" 51st "	52d "	N. 78° 30' W.	26.10	5.20	25.58
" 51st "	52d "	S. 48° 15' W.	33.50	22.30	24.99
" 52d "	53d "	WEST	11.50		11.50
" 52d "	53d "	N. 64° 30' W.	46.20	19.90	41.70
" 52d "	53d "	S. 70° 00' W.	22.30	7.62	20.96
" 53d "	54th "	S. 70° 00' W.	34.60	11.84	32.51
" 53d "	54th "	S. 49° 45' W.	45.40	29.33	34.66
" 54th "	55th "	S. 49° 45' W.	9.40	6.07	7.17
" 54th "	55th "	S. 70° 00' W.	13.00	4.45	12.22
" 54th "	55th "	S. 74° 30' W.	28.50	7.61	27.46
" 54th "	55th "	S. 30° 30' W.	7.70	6.64	3.91
" 54th "	55th "	S. 53° 30' W.	21.40	12.73	17.21
" 55th "	56th "	S. 53° 30' W.	80.00	47.60	64.31
" 56th "	57th "	S. 53° 30' W.	80.00	47.60	64.31
" 57th "	58th "	S. 53° 30' W.	22.00	13.09	17.68
" 57th "	58th "	N. 50° 30' W.	58.00	36.89	44.75
" 58th "	59th "	N. 50° 30' W.	80.00	50.89	61.72

TOTALS FORWARD,

886.491193.87. 6.84 3949.10

LATITUDES AND DEPARTURES OF NORTH BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDES			DEPARTURES	
				N. Chs.	S. Chs.	E. Chs.	W. Chs.	
FOOTINGS BROUGHT FORWARD,								
From 59th to 60th M.		N. $50^{\circ}30'W.$	886.49	1193.87		6.84	3949.10	
" 59th to 60th M.		S. $38^{\circ}45'W.$	1.20	0.76			.95	
" 59th to 60th M.		S. $83^{\circ}00'W.$	31.00		24.18		19.40	
" 59th " 60th M.		N. $80^{\circ}30'W.$	24.80		3.01		24.61	
" 59th " 60th M.		N. $52^{\circ}30'W.$	5.70	0.95			5.62	
" 60th " 61st M.		N. $52^{\circ}30'W.$	17.30	10.53			13.72	
" 60th " 61st M.		N. $83^{\circ}00'W.$	34.00	20.70			26.97	
" 60th " 61st M.		S. $83^{\circ}00'W.$	39.00	4.76			38.70	
" 60th " 61st M.		S. $81^{\circ}45'W.$	7.00		1.00		6.95	
" 61st " 62d M.		S. $81^{\circ}45'W.$	44.00		6.31		43.54	
" 61st " 62d N.		S. $22^{\circ}45'W.$	20.00		18.44		7.75	
" 61st " 62d M.		S. $57^{\circ}07'E.$	16.00		8.69	13.44		
" 62d " 63d M.		S. $57^{\circ}07'E.$	20.90		11.34	17.55		
" 62d " 63d M.		S. $36^{\circ}30'E.$	11.80		9.48	7.02		
" 62d " 63d M.		S. $4^{\circ}15'E.$	16.20		16.15	1.19		
" 62d " 63d M.		S. $72^{\circ}00'W.$	13.60		4.21		12.93	
" 62d " 63d M.		N. $81^{\circ}00'W.$	17.50	2.74			17.28	
" 63d " 64th M.		S. $46^{\circ}00'W.$	54.50		37.86		39.20	
" 63d " 64th M.		S. $6^{\circ}49'W.$	25.50		25.32		3.05	
" 64th " N.W.Cor.S.		S. $6^{\circ}49'W.$	27.40		27.21		3.25	
of Reservation								
Total Lat. and Dep. of								
North Boundary, - - -					926.93	1387.07	46.04	4212.94

For recapitulation of latitude and departure tables see book "C".

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Feed M. Brown, United States Deputy Surveyor, to assist in running, measuring, and working the lines and corners described in the foregoing field notes of the survey of The East and North Bdy's Uintah Indian Reservation during the respective capacities in which they acted:

John P. Kitz, Chainman.
Otto B. Von Taxis, Chainman.
D. Le Caldwell, Moundman.
G. W. Caldwell, Moundman.
Rack Sabine, Axman.
J. C. Hall, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Feed M. Brown, United States Deputy Surveyor, in surveying all parts or portions of the Cast and North Bdy's Uintah Indian Reservation of the

meridian, State of Utah, which are represented foregoing field notes as having been surveyed by him and under his direction; and that said survey was in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

John P. Kitz, Chainman.
Otto B. Von Taxis, Chainman.
D. Le Caldwell, Moundman.
G. W. Caldwell, Moundman.
Rack Sabine, Axman.
J. C. Hall, Flagman.

bed and sworn to before me this 6th
of August, 1904

6
SEAL
6

Feed M. Brown

U. S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Fred M. Brown, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 20th day of July 1903, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The East and North Boundaries of the Uintah Indian Reservation.

meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Fred M. Brown
United States Deputy Surveyor.

Subscribed by said Fred M. Brown, and sworn to before me
this 17th day of September, 1904

SEAL
000000

Edward H. Anderson
U.S. Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, December 31, 1904

The foregoing field notes of the survey of the East and North Boundaries of the Uintah Indian Reservation, Utah,

executed by Arthur H. Brown and Fred M. Brown, U.S. Deputy Surveyors,
their contract No. 264, dated July 20, 1903, XMM, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-328

X.3.B.

FIELD NOTES

OF THE SURVEY OF THE

*East Boundary
of the
Utah Indian Reservation*

Of the Meridian,

State of Utah

AS SURVEYED BY

Arthur A. Brown & Fred A. Brown, United States Deputy Surveyors

Under their Contract No. 164, dated July 20th, 1903

Survey commenced July 2, 1903

Survey completed July 23, 1903

NAMES AND DUTIES OF ASSISTANTS.

John P. Hitz, Chainman.

Otto B. Vonarx, Chainman.

D.C. Caldwell, Moundman.

G.W. Caldwell, Moundman.

Rock Labrum, Axman.

J.C. Hall, Flagman.

Volume

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31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, John P. Hitz and Otto B. Konars

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

East Boundary Uintah Indian Reservation Utah

John P. Hitz, Chainman.

Otto B. Konars, Chainman.

Subscribed and sworn to before me this 1st day of July, 1905



WE, D. L. Caldwell

and G. W. Caldwell

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

Cast Boundary Uintah Indian Reservation

D. L. Caldwell, Moundman.

G. W. Caldwell, Moundman.

Subscribed and sworn to before me this 1st day of July, 1905



WE, Rack Gabrum and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

East Boundary Uintah Indian Reservation

Rack Gabrum, Axman.

Axman.

Subscribed and sworn to before me this 1st day of July, 1905



I, J. O. Hall

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Uintah East Boundary Uintah Indian Reservation

J. O. Hall, Flagman.

Subscribed and sworn to before me this 1st day of July, 1905



Jed m Brown
U.S. Deputy Surveyor

OF

PORTION OF THE EAST BOUNDARY OF THE UNTAH INDIAN RESERVATION

CHAINS

Survey commenced, July 2, 1905, and executed with a W. & L. E. Gurley, light mountain transit, No.-, the horizontal limb being provided with two opposite verniers, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the Surveyor General, August 20, 1903.

I begin at the 50th mile corner on the East boundary of the Uintah Indian Reservation, which was established June 19, 1904, in approximate latitude $40^{\circ}41'N.$, long. $109^{\circ}56'W.$. At 0 h.50m., a.m., l.m.t., I observe Polaris at eastern elongation in accordance with Manual of Instructions and mark the line thus determined by a tack, driven in a wooden peg, set in the ground, 5 chains north of my station. At 6 a.m., I lay off the azimuth of Polaris, $1^{\circ}35'$ to the west and mark the true meridian thus determined by cutting a mark on a stone firmly set in the ground, west of the mark established last night.

From this corner, I turn off from the meridian an angle of $30^{\circ}45'$ to the west and run N. $30^{\circ}45'W.$, retracing on the 51st mile. Ascending over mountainous land, covered with heavy pine timber.

At 39.90 chs., the $\frac{1}{2}$ mile cor. bears N. $59^{\circ}15'E.$, 17 lks. I destroy all traces of this cor. and continue my line to offset 17 lks. N. $59^{\circ}15'E.$ and set a sandstone 34x12x8 ins., 25 ins. in the ground for $\frac{1}{2}$ mile cor., which will now also be an angle cor., marked $\frac{1}{2}M$ on S. face; $\angle UIR$ on W. face, ^{heavy}
^{bullet}
^{page 3} from which

A pine, 12 ins. diam., bears S. $28^{\circ}00'W.$ 30 lks. dist., marked $\frac{1}{2}M$ $\angle UIRBT.$

A pine, 10 ins. diam., bears N. $20^{\circ}00'W.$, 40 lks. dist., marked $\frac{1}{2}M$ $\angle UFRBT.$

(2)
CORRECTED SURVEY

OF

PORTION OF EAST BOUNDARY OF THE UNTAH INDIAN RESERVATION.

CHAINS

A pine, 20 ins. diam., bears N.10°00'E., 35 lks. dist.,
marked $\frac{1}{2}$ M, \angle U F R B T.

A pine, 15 ins. diam., bears S.40°00'W., 20 lks. dist.,
marked $\frac{1}{2}$ M \angle U I R B T.

The course of this line is therefore N.30°30'W.

Thence N.30°45'W.

At 19.80 chs. the angle cor. bears S.59°15'W., 85 lks.

I destroy all traces of this cor. and at

20.00 Offset 85 lks. S.59°15'W. and set a sandstone 24x10x2 ins.
18 ins. in the ground, for angle corner, marked \angle U I R on
S. face, from which

A pine, 8 ins. diam., bears S.35°00'E., 16 lks. dist.,
marked \angle U F R B T.

A pine, 10 ins. diam., bears N.25°00'W., 30 lks. dist.,
marked \angle U F R B T.

A pine, 12 ins. diam., bears S.20°00'W., 15 lks. dist.,
marked \angle U I R B T.

A pine, 12 ins. diam., bears N.35°00'W., 40 lks. dist.,
marked \angle U F R B T.

The course of this line is therefore N.33°11'W.

Thence N.88°15'W.

At 19.78 chs. the old 51st. rile cor. bears S.1°45'W., 78
lks. dist. I destroy all traces of this cor. and at

20.00 Offset 48 lks. S.1°45'W. and set a sandstone 26x14x8 ins.
19 ins. in the ground for 51st. mile cor., which is also an
angle cor., marked \angle 51 M on S. face, U I R on W. and U F R
on E. faces, from which

A pine, 16 ins. diam., bears N.57°00'E., 50 lks. dist.,
marked 51 M \angle U F R B T.

A pine, 14 ins. diam., bears N.75°00'E., 25 lks. dist.,
marked 51 M \angle U F R B T.

A pine, 18 ins. diam., bears S.45°00'E., 40 lks. dist.,
marked 51 M \angle U I R B T.

A pine, 21 ins. diam., bears S.35°00'W., 22 lks. dist.,
marked 51 M \angle U I R B T.

against
book
S.4835
is book
S.34235

OF

PORTION OF EAST BOUNDARY OF THE UNTAH INDIAN RESERVATION.

CHAINS

The course of this line is therefore N. $89^{\circ}37'F.$

Land, mountainous.

Soil, rocky and gravelly, 3rd. and 4th. rate.

Timber, pine,

Mountainous land on 20.00 chs.

52ND.MILE.

S. $61^{\circ}15'W.$, retracing on the 52nd.mile.

Over mountainous land, ascend through heavy pine timber.

At 19.76 chs. the old angle cor. bears N. $28^{\circ}45'F.$, 96 lks.

I destroy all traces of this cor. and at

20.00 offset N. $28^{\circ}45'W.$, 96 lks. and set a sandstone, 26x12x8 ins. 19 ins. in the ground, for angle corner, marked < U I R on S. face, from which

A pine, 12 ins. diam., bears S. $40^{\circ}00'W.$, 36 lks. dist., marked < U I R B T.

A pine, 10 ins. diam., bears S. $40^{\circ}00'E.$, 24 lks. dist., marked < U I R B T.

A pine, 14 ins. diam., bears N. $40^{\circ}00'W.$, 35 lks. dist., marked < U F R B T.

A pine, 10 ins. diam., bears N. $20^{\circ}00'W.$, 50 lks. dist. marked < U F R B T.

The course of this line is therefore S. $64^{\circ}00'F.$

Thence N. $64^{\circ}15'W.$

At 19.92 chs. the $\frac{1}{2}$ mile cor. bears S. $25^{\circ}45'W.$, 88 lks.

I destroy all traces of this cor. and at

20.00 offset 88 lks. S. $25^{\circ}45'W.$ and set a sandstone 28x15x10 ins. 21 ins. in the ground, for $\frac{1}{2}$ mile cor. which is also an angle corner, marked $\frac{1}{2}$ M on S.E. and < U I R on S.faces, from which

A pine, 14 ins. diam., bears N. $50^{\circ}00'F.$, 35 lks. dist., marked < U F R B T.

A pine, 12 ins. diam., bears N. $10^{\circ}00'F.$, 40 lks. dist., marked < U F R B T.

A pine, 12 ins. diam., bears N. $75^{\circ}00'F.$, 22 lks. dist., marked < U I R B T.

A pine, 11 ins. diam., bears S. $60^{\circ}00'F.$, 35 lks. dist.,

Facsimile
of original
and blank
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Pg. 36.

OF

PORTION OF EAST BOUNDARY OF THE UNTAH INDIAN RESERVATION.

CHAINS

marked < U I R B T.

The course of this line is therefore N.66°46'W.

Thence N.64°15'W.

34.00

Head of lake, containing about 6 acres, drains S.

At 39.83 chs. the 52nd.mile cor. bears N.25°45'E., 6.53 chs.

I destroy all traces of this cor. and at

40.00

Offset N.25°45'E., 6.53 chs. and set a sandstone, 26x15x12 ins., 19 ins. in the ground, for 52nd.mile cor. which is also an angle cor., marked 52 M on S.R., < U I R on S.W. and U F R on N.faces, from which

A pine, 18 ins. diam., bears N.40°00'W., 45 lks. dist.,
marked < 52 M U F R B T.A pine, 14 ins. diam., bears N.10°00'W., 60 lks. dist.,
marked 52 M < U F R B T.A pine, 12 ins. diam., bears N.80°00'W., 60 lks. dist.,
marked 52 M < U I R B T.A pine, 14 ins. diam., bears S.75°00'W., 30 lks. dist.,
marked 52 M < U I R B T.

The course of this line is therefore N.54°59'W.

Land, mountainous.

Soil, gravelly and rocky, 3rd. and 4th. rate.

Timber pine.

Mountainous land on 80.00 chs,

53RD. MILE.

N.64°15'W., retracing the 53rd.mile.

39.05

The $\frac{1}{2}$ mile cor., bears S.25°45'W., 5.76 chs.

The course of this line is therefore N.72°39'W.

July 2, 1905.

NOTE:

There being no notary public or other officer authorized to administer oaths, within a reasonable distance, at the beginning or ending of this survey; in order to save time and expense, I administer the preliminary and final oaths myself.

Alden Brown
U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Ted m Brown, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of East Boundary Uintah Indian Reservation Utah showing the respective capacities in which they acted:

John P. Fitz, Chainman.

Otoe B. Knarr, Chainman.

D. C. Caldwell, Moundman.

S. W. Caldwell, Moundman.

Rack Laburn, Axman.

, Axman.

J. E. Hall, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Ted m Brown,

United States Deputy Surveyor, in surveying all those parts or portions of the East Boundary Uintah Indian Reservation, Utah

of the

meridian, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

John P. Fitz, Chainman.

Otoe B. Knarr, Chainman.

D. C. Caldwell, Moundman.

S. W. Caldwell, Moundman.

, Axman.

Rack Laburn, Axman.

J. E. Hall, Flagman.

Subscribed and sworn to before me this 10th

day of July, 1891 AD.



6-161

Ted m Brown
U. S. Deputy Sur.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Fred M. Brown, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward A. Casper, United States Surveyor General for Utah, bearing date of the 9th day of July 1903, No. 189, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The Ecclesiastical Agency of The Uintah Indian Reservation.

..... of the
 meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Fred M. Brown
United States Deputy Surveyor.

Subscribed by said Fred M. Brown, and sworn to before me
this 9th day of October 1905, No. 189

000000
SEAL
000000

Thomas H. Bell
U.S. Surveyor General
for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Wall Lake, Utah, February 18th, 1906
The foregoing field notes of the survey of The Ecclesiastical Agency of The
Uintah Indian Reservation, in the State of Utah.

Executed by Clerk of the Office of Fred M. Brown
under his contract No. 2614, dated July 26th 1903, No. 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas H. Bell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in
..... has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-328

OCT 19 1904

*W.H.*FIELD^B NOTES

OF THE SURVEY OF THE

*V.V.**Southeast Boundary**of the*

VIINTAH INDIAN RESERVATION

*of the Meridian,
state of Utah.*

AS SURVEYED BY

*Arthur H. Brown and Fred M. Brown, United States Deputy Surveyors
their
Under his Contract No. 264, dated July 20, 1903, *180***Survey commenced August 31, 1903, *180***Survey completed September 3, 1903, *180**

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*J. H. T. L.**9 OC*

NAMES AND DUTIES OF ASSISTANTS.

John W Chase, chairman

W W Evans, chairman

Geo Mecham, moundman

John H Cook, axman

William Ford, axman

Frank Bowden, flagman

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, John W Chase and W W Evans, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Southeast Boundary of the Uintah Indian Reservation, state of Utah.

John W Chase, Chainman.
W W Evans, Chainman.

Subscribed and sworn to before me this 30th day of August, 1903



We, I, Geo Mecham

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the Southeast Boundary of the Uintah Indian Reservation, state of Utah.

, Moundman.

Geo Mecham, Moundman.

Subscribed and sworn to before me this 30th day of August, 1903



We, John H Cook

Archer J D Brown
N S, Deputy Surveyor

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the Southeast Boundary of the Uintah Indian Reservation, state of Utah.

John St book, Axman.
William Ford, Axman

Subscribed and sworn to before me this 30th day of August, 1903



I, Frank Bowden

Archer J D Brown
N S, Deputy Surveyor

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Southeast Boundary of the Uintah Indian Reservation, state of Utah.

Frank Bowden

, Flagman

Subscribed and sworn to before me this 30th day of August, 1903



Archer J D Brown
N S, Deputy Surveyor

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

Survey commenced August 31, 1903, and executed with a W. and L. E. Gurley, Light Mountain Transit (Not numbered), with solar attachment. The horizontal limb is provided with two double verniers, placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah, August 20, 1903. I examine the adjustments of the transit, and correct the level and collimation errors, then, to test the solar apparatus by comparing its indications resulting from solar obsns. made during p.m. and a.m. hrs. with a meridian determined by obsn. on Polaris, I proceed as follows: At the initial point of the South East boundary, which is a sandstone, 18x11x5 ins., above ground, marked and witnessed as described by the Surveyor General, in latitude $40^{\circ} 07' N.$ Longitude $109^{\circ} 43' W.$ I set off $40^{\circ} 07' N.$ on the lat. arc; $8^{\circ} 50' N.$ on the decl. arc, and at 3 h. 00 m. p.m., l.m.t., determine with the solar a meridian, and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of my station, At 8 h., 53 m., p.m., by my watch, which agrees with l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line, thus determined, on a peg driven in the ground, 5 chs. N. of my station.

August 31, 1903.

September 1, 1903, at 6 h., 00 m., a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ} 35'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set September 1, on which the meridian falls

SOUTH-EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

0.4 Ins. east of the mark determined by the solar. At 8 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 07'$ N. on the lat. arc; $8^{\circ} 35'$ N. on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs. N. of my station. This mark falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively, about $0' 21''$ west, and $0' 16''$ east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8 h., 30 m., a.m., l.m.t., is N. 16° W., which gives the mag. decl., 16° E.

From the initial point heretofore described, I run, S. $67^{\circ} 15'$ E., on the 1st mile.

Descend gradually.

0.50 Descend abruptly.

10.00 Bottom of cliff, 20ft. high, bears N. and S.

24.75 Wagon Road, bears N.E. and S.W.

25.00 Enter scattering cottonwood timber, bears N.E. and S.W.

33.00 Present right bank of Green River., Old meander cor.. has been washed away by changing of river bed from old channel, therefore, I could not continue line to 36.44 chs., as called for in old notes. Therefore, at this point, I set a cottonwood post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on S.W., and P L on N.E. faces, from which; A cottonwood, 6 ins. diam., bears S. 33° W., 55 lks. dist., marked \angle U I R B T.

A cottonwood, 6 ins. diam., bears S. $47^{\circ} 30'$ W., 186 lks. dist., marked \angle U I R B T.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $67^{\circ} 15'$ W. of cor. Pits impracticable.

As the course of the river bed is constantly changing, and old meander corners have been destroyed, I find it impossible to retrace old meanders, as called for in the instructions, but deem it advisable to establish the S.E. boundary of the Reservation as nearly as possible along the present right bank of Green River, irrespective of old meander lines. I would state that I failed to find any of the old meander corners, although I made diligent search for the same.

Thence S. $24^{\circ} 30'$ W.

- 7.00 Set a pine post, 48x6x6 ins., 36 ins. in the ground, for 1/2 mile cor., marked 1/2 M on N.E., U I R on N.W., and P L on S.E. faces, from which;
A cottonwood, 6 ins. diam., bears N. $15^{\circ} 30'$ W., 170 lks. dist., marked 1/2 M U I R B T.
A cottonwood, 8 ins. diam., bears N. 18° W., 165 lks. dist., marked 1/2 M U I R B T.
A cottonwood, 8 ins. diam., bears N. $22^{\circ} 45'$ W., 190 lks. dist., marked 1/2 M U I R B T.
A cottonwood, 6 ins. diam., bears N. $25^{\circ} 30'$ W., 185 lks. dist., marked 1/2 M U I R B T.
- 14.50 Enter dense undergrowth, bears E. and W.
- 22.00 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on W., and P L on E. faces, from which;
A cottonwood, 7 ins. diam., bears N. 81° W., 45 lks. dist., marked \angle U I R B T.
A cottonwood, 8 ins. diam., bears N. $72^{\circ} 30'$ W., 55 lks. dist., marked \angle U I R B T.
A cottonwood, 8 ins. diam., bears S. $5^{\circ} 30'$ E., 4 lks. dist., marked \angle P L B T.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- A cottonwood, 10 ins. diam., bears S. $11^{\circ} 45'$ E., 65 lks.
dist., marked \angle P L B T.
- Thence S. $35^{\circ} 30'$ E.
- 25.00 Set a cottonwood post, 48x6x6 ins., 36 ins. in the ground, for 1 mile and angle cor., marked 1 M on N.W., \angle U I R on S.W., and P L on N.E. faces, from which;
A cottonwood, 12 ins., diam., bears S. 31° E., 55 lks.
dist., marked 1 M \angle U I R B T.
- A cottonwood, 14 ins. diam., bears S. $13^{\circ} 30'$ E., 47 lks.
dist., marked 1 M \angle U I R B T.
- A cottonwood, 14 ins. diam., bears S. $2^{\circ} 30'$ W., 125 lks.
dist., marked 1 M \angle U I R B T.
- A cottonwood, 12 ins. diam., bears S. 4° E., 75 lks.
dist., marked 1 M \angle U I R B T.
- Land mountainous.
- Soil rocky and sandy, loam, 3d and 2d rate.
- Timber, scattering cottonwoods on 55.00 chs.
- Undergrowth, dense willows on 32.50 chs.
- Mountainous land, or dense undergrowth 80.00 chs.
-
- S. $73^{\circ} 45'$ E.; on the 2d mile.
- Descend gradually through dense willow undergrowth and scattering cottonwoods.
- 14.35 Wire fence, bears N. and S.
- 22.40 Set a cottonwood post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $73^{\circ} 45'$ W. of cor.
- Thence S. $27^{\circ} 30'$ E.
- 14.90 Set a cottonwood post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on W. and P L on E. faces; from which;
A cottonwood, 14 ins. diam., bears S. 66° W., 135 lks.
dist., marked \angle U I R B T.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

A cottonwood, 10 ins. diam., bears S. 64° W., 125 lks. dist., marked \angle U I R B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $27^{\circ} 30'$ W. of cor. Pits impracticable.

Thence S. $3^{\circ} 45'$ W.

2.70 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for 1/2 mile cor., marked 1/2 M on N., U I R on W., and P L on E. faces, from which; A cottonwood, 12 ins. diam., bears N. $19^{\circ} 30'$ W., 65 lks. dist., marked 1/2 M U I R B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $3^{\circ} 45'$ E. of cor. Pits impracticable.

7.40 Set a pine post, 48x6x6 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on W., and P L on E. faces; from which;

A cottonwood, 14 ins. diam. bears South 41 lks. dist., marked \angle P L B T.

A cottonwood, 12 ins. diam., bears S. 8° W., 43 lks. dist., marked \angle U I R B T.

A cottonwood, 10 ins., diam., bears S. 24° W., 35 lks. dist., marked \angle U I R B T.

A cottonwood, 12 ins. diam., bears S. 26° W., 46 lks. dist., marked \angle U I R B T.

Thence S. $32^{\circ} 15'$ E.

15.70 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on W., and P L on E. faces, from which;

A cottonwood, 12 ins. diam., bears S. 81° W., 2.55 chs. dist., marked \angle U I R B T.

A cottonwood, 14 ins. diam., bears S. $85^{\circ} 15'$ W., 2.65 chs. dist., marked \angle U I R B T.

A cottonwood, 18 ins. diam., bears N. $87^{\circ} 30'$ W., 2.85

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- chs. dist., marked ↗ U I R B T.
- A cottonwood, 12 ins. diam., bears N. $85^{\circ} 30'$ W., 2.87
chs. dist., marked ↗ U I R B T.
- Thence S. $35^{\circ} 45'$ W.
- 11.70 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground,
for angle cor., marked ↗ U I R on W., and P L on E. faces,
from which;
- A Black Willow, 4 ins. diam., bears N. $9^{\circ} 30'$ E., 85 lks.
dist., marked ↗ U I R B T.
- A Black Willow, 4 ins. diam., bears N. $12^{\circ} 45'$ E., 87 lks.
dist., marked ↗ U I R B T.
- A Black Willow, 4 ins. diam., bears N. 16° E., 85 lks.
dist., marked ↗ U I R B T.
- A Black Willow, 4 ins. diam., bears N. $15^{\circ} 45'$ E., 100 lks.
dist., marked ↗ U I R B T.
- Thence S. $69^{\circ} 45'$ W.
- 7.90 Set a cottonwood post, 48x5x5 ins., with marked stone,
36 ins. in the ground, for 2 mile cor., marked 2 M on E.,
U I R on N., and P L on S. faces; dig pits, 36x36x12 ins.
N. $20^{\circ} 15'$ W.; and S. $20^{\circ} 15'$ E. of post, 4 ft. dist.,
and raise a mound of earth, 5 ft. base, 2-1/2 ft. high,
N. $69^{\circ} 45'$ E. of cor.
- Land mountainous.
- Soil rocky and sandy loam, 2d and 3d rates.
- Timber, scattering cottonwoods, 80.00 chs.
- Dense Willow Undergrowth, 80.00 chs.
- Mountainous land or heavy undergrowth, 80.00 chs.
- September 1, at noon hour, sky overcast, and observations
for lat. impossible.
- S. $69^{\circ} 45'$ W. on the 3d mile.
- Descend gradually through dense undergrowth and scatter-
ing cottonwoods.
- 15.40 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground,

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- for angle cor., marked \angle U I R on N., and P L on S. faces, from which;
- A cottonwood, 24 ins. diam., bears N. 28° W., 33 lks. dist., marked \angle U I R B T.
- A cottonwood, 30 ins. diam., bears N. 44° W., 50 lks. dist., marked \angle U I R B T.
- A cottonwood, 18 ins. diam., bears S. 79° W., 43 lks. dist., marked \angle U I R B T.
- A cottonwood, 6 ins. diam., bears North 60 lks. dist., marked \angle U I R B T.
- Thence S. $48^\circ 30'$ W.
- 11.90 Wire fence, bears S.E. and N.W.
- 12.60 Set a cottonwood post, 48x6x6 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, from which;
- A cottonwood, 6 ins. diam., bears N. $27^\circ 30'$ E., 65 lks. dist., marked \angle U I R B T.
- A cottonwood, 8 ins. diam., bears N. $10^\circ 30'$ E., 70 lks. dist., marked \angle U I R B T.
- A cottonwood, 6 ins., diam., bears N. $13^\circ 15'$ E., 80 lks. dist., marked \angle U I R B T.
- A cottonwood, 6 ins. diam., bears N. $9^\circ 30'$ W., 40 lks. dist., marked \angle U I R B T.
- Thence N. $82^\circ 15'$ W.
- 6.30 Set a cottonwood post, 48x6x6 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which;
- A cottonwood, 6 ins. diam., bears N. $41^\circ 45'$ E. 15 lks. dist., marked \angle U I R B T.
- A cottonwood, 5 ins. diam., bears N. 16° E., 20 lks. dist., marked \angle U I R B T.
- A cottonwood, 5 ins. diam., bears N. 11° W., 20 lks. dist., marked \angle U I R B T.
- A cottonwood, 8 ins. diam., bears N. $24^\circ 45'$ W., 40 lks.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- dist., marked \angle U I R B T.
- Thence S. $87^{\circ} 15'$ W.
- 5.70 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground, for 1/2 mile cor., marked 1/2 M on E., U I R on N., and P L on S. faces, from which;
- A cottonwood, 10 ins. diam., bears N. 43° E., 35 lks. dist.; marked 1/2 M U I R B T.
- A cottonwood, 15 ins. diam., bears N. 43° E., 20 lks. dist., marked 1/2 M U I R B T.
- A cottonwood, 12 ins. diam., bears N. $23^{\circ} 30'$ W., 40 lks. dist., marked 1/2 M U I R B T.
- A cottonwood, 8 ins. diam., bears N. $78^{\circ} 30'$ W., 25 lks. dist., marked 1/2 M U I R B T.
- 27.10 Set a cottonwood post, 48x6x6 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which;
- A cottonwood, 24 ins. diam., bears West, 13 lks. dist., marked \angle U I R B T.
- A cottonwood, 24 ins. diam., bears N. 55° W., 55 lks. dist., marked \angle U I R B T.
- A cottonwood, 12 ins. diam., bears N. $70^{\circ} 45'$ W., 60 lks. dist., marked \angle U I R B T.
- A cottonwood, 10 ins. diam., bears N. 79° W., 60 lks. dist., marked \angle U I R B T.
- Thence S. $55^{\circ} 30'$ W.
- 4.60 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, from which, the S.W. cor. of Blacksmith Shop, at Ouray Ferry, bears North .07 lks. dist., marked + B 10 \angle U I R.
- No other bearing objects available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $55^{\circ} 30'$ E. of cor. Pits impracticable.
- Thence S. 81° W.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 14.00 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground, for 3 mile and angle cor., marked 3 M on E., \angle U I R on N., and P L on S. faces, from which,
- A cottonwood, 12 ins. diam., bears N. 15° E., 4.38 chs. dist., marked \angle U I R 3 M B T.
- A cottonwood, 10 ins. diam., bears N. 25° E., 4.40 chs. dist., marked \angle U I R 3 M B T.
- A cottonwood, 8 ins. diam., bears N. 67° E., 4.48 chs. dist., marked \angle U I R 3 M B T.
- A cottonwood, 10 ins. diam., bears S. 60° W., 3.20 chs. dist., marked \angle U I R 3 M B T.
- Land mountainous.
- Soil; clay and sandy loam, 2d and 3d rates.
- Timber, scattering cottonwoods, 80.00 chs.
- Dense Willow undergrowth, 80.00 chs.
- Mountainous land, or heavy undergrowth, 80.00 chs.

S. $60^\circ 45'$ W. on the 4th mile.

Descend gradually through dense willow undergrowth and scattering cottonwoods.

- 0.25 Left bank of Uintah River, course S.E.
- 3.00 Right bank of Uintah River. I determine distance across river with 300 ft. tape.
- 10.00 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins., N. $37^\circ 52'$ W., and S. $37^\circ 52'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2-1/2 ft. high, N. $60^\circ 45'$ E. of cor.
- Thence S. $43^\circ 30'$ W.
- 30.00 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for 1/2 mile and angle cor., marked \angle U I R on N.W., 1/2 M on N.E., and P L on S.E. faces; dig pits, 36x36x12 ins., N. 60° W., and S. 60° E. of

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

- CHAINS
- post, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2-1/2 ft. high, N. 43° 30' E. of cor.
- Thence S. 16° 30' W.
- 19.00 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for angle cor., marked Z U I R on W., and P L on E. faces; dig pits, 36x36x12 ins., S. 87° 22' W. and N. 87° 22' E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2-1/2 ft. high, N. 16° 30' E. of cor.
- Thence S. 21° 45' E.
- 5.15 Wire fence, bears E. and W.
- 9.60 Set a cottonwood post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked Z U I R on N.W., and P.L., on E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 21° 45' W. of cor.
- Pits impracticable.
- Thence S. 88° 45' W.
- 11.40 Set a cottonwood post, 48x6x5 ins., with marked stone, 36 ins. in the ground, for 4 mile and angle cor., marked 4 M on E., Z U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. 22° 07' W., and S. 22° 07' E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2-1/2 ft. high, N. 88° 45' E. of cor.
- Land gradually sloping.
- Soil, sandy and clay, 3d rate.
- Timber, scattering cottonwoods, 80.00 chs.
- Dense willow undergrowth, 80.00 chs.
- September 1, 1903.
-
- S. 45° W. on the 5th mile.
- Descend gradually, through dense willow undergrowth, and scattering cottonwoods.
- 9.00 Leave dense willow undergrowth, bears N. and S.
- 10.00 Set a sandstone, 24x15x8 ins., 18 ins. in the ground,

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 45° E. of cor. Pits impracticable. From this cor. a log cabin bears North; 5.00 chs. dist. Thence S. $1^\circ 15'$ W. Enter dense willow undergrowth, bears N. and S.
- 21.60 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on W., and P L on E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $1^\circ 15'$ E. of cor. Pits impracticable.
- Thence S. $57^\circ 45'$ W.
- 8.40 Set a cottonwood post, 48x6x6 ins., 36 ins. in the ground, for 1/2 mile cor., marked 1/2 M on N.E., U I R on N.W., and P L on S.E. faces, from which;
- A cottonwood, 10 ins. diam., bears N. 59° W., 48 lks. dist., marked 1/2 M U I R B T.
- A cottonwood, 8 ins. diam., bears N. 63° W., 51 lks. dist., marked 1/2 M U I R B T.
- A cottonwood, 6 ins. diam., bears N. $71^\circ 45'$ W., 115 lks. dist., marked 1/2 M U I R B T.
- A cottonwood, 8 ins. diam., bears N. $64^\circ 15'$ W., 125 lks. dist., marked 1/2 M U I R B T.
- 11.30 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $57^\circ 45'$ E. of cor. Pits impracticable.
- Thence S. $42^\circ 45'$ W.
- 18.00 Old corral fence bears N. and S.
- 37.10 Set a cottonwood post, 48x7x6 ins., 36 ins. in the ground, for 5 mile and angle cor., marked 5 M on N.E., \angle U I R on N.W., and P L on S.E. faces, from which;
- A cottonwood, 24 ins. diam., bears N. 23° E., 40 lks.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

dist., marked 5 M \angle U I R B T.

A cottonwood, 24 ins. diam., bears N. $19^{\circ} 30'$ E., 35 lks.
dist., marked 5 M \angle U I R B T.

A cottonwood, 24 ins. diam., bears N. 6° W., 35 lks.
dist., marked 5 M \angle U I R B T.

A cottonwood, 18 ins. diam., bears N. $29^{\circ} 15'$ W., 50 lks.
dist., marked 5 M \angle U I R B T.

Land, slightly descending, nearly level.
Soil, sandy and clay, 2d rate.

Timber, scattering cottonwoods, 80.00 chs.

Dense willow undergrowth, 71.00 chs.

September 2, 1903, at 9 h. 00 m., a.m., l.m.t., I set off $40^{\circ} 04'$ N. on the lat. arc; $8^{\circ} 12'$ N. on the decl. arc, and determine a meridian with the solar, at the 5 mile cor.

Thence I run,

N. $84^{\circ} 15'$ W. on the 6th mile.

Descend through dense willow undergrowth, and scattering cottonwoods.

- 9.70 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on N. and P L on S. faces, from which;
- A cottonwood, 18 ins. diam., bears N. $43^{\circ} 30'$ E., 185 lks. dist., marked \angle U I R B T.
- A cottonwood, 48 ins. diam., bears N. 40° E., 170 lks. dist., marked \angle U I R B T.
- A cottonwood, 48 ins. diam., bears N. 34° E., 175 lks. dist., marked \angle U I R B T.
- A cottonwood, 24 ins. diam., bears N. $32^{\circ} 30'$ E., 165 lks. dist., marked \angle U I R B T.
- Thence N. 52° W.
- 7.30 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W.

SOUTH EAST BOUNDARY, WINTAH INDIAN RESERVATION

CHAINES

- faces, from which;
- A cottonwood, 36 ins. diam., bears N. $88^{\circ} 30'$ E., 125 lks. dist., marked \angle U I R B T.
- A cottonwood, 24 ins. diam., bears N. $86^{\circ} 15'$ E., 120 lks. dist., marked \angle U I R B T.
- A cottonwood, 36 ins. diam., bears N. 83° E., 135 lks. dist., marked \angle U I R B T.
- A cottonwood, 14 ins. diam., bears N. $41^{\circ} 15'$ E., 80 lks. dist., marked \angle U I R B T.
- Thence N. 68° W.
- 23.00 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground, for 1/2 mile and angle cor., marked 1/2 M on E., \angle U I R on N., and P L on S. faces, from which;
- A cottonwood, 18 ins. diam., bears N. $81^{\circ} 45'$ E., 299 chs. dist., marked 1/2 M \angle U I R B T.
- A cottonwood, 24 ins. diam., bears N. $78^{\circ} 45'$ E., 293 lks. dist., marked 1/2 M \angle U I R B T.
- A cottonwood, 24 ins. diam., bears N. $75^{\circ} 15'$ E., 297 lks. dist., marked 1/2 M \angle U I R B T.
- A cottonwood, 36 ins. diam., bears N. 15° E., 7 lks. dist., marked 1/2 M \angle U I R B T.
- Thence N. $34^{\circ} 30'$ W.
- 11.00 Set a cottonwood post, 36x5x5 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, from which;
- A cottonwood, 8 ins. diam., bears S. $45^{\circ} 30'$ E., 30 lks. dist., marked \angle U I R B T.
- A cottonwood, 6 ins. diam., bears S. $63^{\circ} 45'$ E., 37 lks. dist., marked \angle U I R B T.
- A cottonwood, 6 ins. diam.; bears S. $77^{\circ} 15'$ E., 35 lks. marked \angle U I R B T.
- A cottonwood, 10 ins. diam., bears N. $83^{\circ} 45'$ E., 95 lks. dist., marked \angle U I R B T.
- Thence N. 30° E.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 5.00 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, from which;
- A cottonwood, 10 ins. diam., bears S. 35° E., 65 lks. dist., marked \angle U I R B T.
- A cottonwood, 8 ins. diam., bears S. 29° E., 75 lks. dist., marked \angle U I R B T.
- A cottonwood, 7 ins. diam., bears S. $14^{\circ} 45'$ E., 100 lks. dist., marked \angle U I R B T.
- A cottonwood, 9 ins. diam., bears S. $19^{\circ} 30'$ E., 40 lks. dist., marked \angle U I R B T.
- Thence N. $42^{\circ} 15'$ E.
- 5.00 Set a cottonwood post, 48x6x6 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on S.E. and P L on N.W. faces, from which;
- A cottonwood, 8 ins. diam., bears N. 50° E., 115 lks. dist., marked \angle U I R B T.
- A cottonwood, 8 ins. diam., bears N. 50° E., 118 lks. dist., marked \angle U I R B T.
- A cottonwood, 10 ins. diam., bears N. $52^{\circ} 45'$ E., 121 lks. dist., marked \angle U I R B T.
- A cottonwood, 12 ins. diam., bears N. $55^{\circ} 45'$ E., 120 lks. dist., marked \angle U I R B T.
- Thence N. $15^{\circ} 45'$ W.
- 5.00 Set a cottonwood post, 48x6x5 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;
- A cottonwood, 24 ins. diam., bears S. 37° E., 150 lks. dist., marked \angle U I R B T.
- A cottonwood, 26 ins. diam., bears S. $36^{\circ} 45'$ E., 155 lks. dist., marked \angle U I R B T.
- A cottonwood, 30 ins. diam., bears S. $33^{\circ} 45'$ E., 160 lks. dist., marked \angle U I R B T.
- A cottonwood, 40 ins. diam., bears S. $31^{\circ} 15'$ E., 165 lks. dist., marked \angle U I R B T.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

lks. dist., marked \angle U I R B T.

Thence N. $68^{\circ} 15'$ W.

14.00 Set a cottonwood post, 48x6x6 ins., 36 ins. in the ground, for 6 mile cor., marked 6 M on E., U I R on N., and P L on S. faces, from which;

A cottonwood, 14 ins. diam., bears N. 41° W., 160 lks. dist., marked 6 M U I R B T.

A cottonwood, 24 ins. diam., bears N. $33^{\circ} 45'$ W., 520 lks. dist., marked 6 M U I R B T.

A cottonwood, 24 ins. diam., bears N. $35^{\circ} 30'$ W., 527 lks. dist., marked 6 M U I R B T.

A cottonwood, 16 ins. diam., bears N. 33° W., 528 lks. dist., marked 6 M U I R B T.

Land slightly descending, nearly level.

Soil, sandy and clay, 3d rate.

Timber, scattering cottonwoods, 80.00 chs.

Dense willow undergrowth, 80.00 chs.

September 2, 1903, at this cor., I set off $8^{\circ} 10'$ N. on the decl. arc, and at 12 h., 00 m., M., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 05'$ N.

N. $68^{\circ} 15'$ W. on the 7th mile.

Descend gradually through dense willow undergrowth and scattering cottonwoods.

14.00 Small draw, draining into west branch of Green River from the N.W.

17.00 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. $13^{\circ} 37'$ E., and S. $13^{\circ} 37'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2-1/2 ft. high, S. $68^{\circ} 15'$ E. of cor.

Thence N. $84^{\circ} 30'$ W.

23.00 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground,

SOUTH EAST BOUNDARY. UNTAH INDIAN RESERVATION

CHAINS

- for 1/2 mile cor., marked 1/2 M on E., and U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., S. $5^{\circ} 30' W.$ and N. $5^{\circ} 30' E.$ of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2-1/2 ft. high, S. $84^{\circ} 30' E.$ of cor.
- 29.50 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground, for angle cor., marked $\angle U I R$ on N., and P L on S. faces, from which;
- A cottonwood, 6 ins. diam., bears N. $10^{\circ} 30' E.$, 175 lks. dist., marked $\angle U I R B T.$
- A cottonwood, 5 ins. diam., bears N. $13^{\circ} E.$, 174 lks. dist., marked $\angle U I R B T.$
- A cottonwood, 5 ins. diam., bears N. $15^{\circ} E.$, 160 lks. dist., marked $\angle U I R B T.$
- A cottonwood, 6 ins. diam., bears N. $17^{\circ} E.$, 165 lks. dist., marked $\angle U I R B T.$
- Thence N. $70^{\circ} 45' W.$
- 9.50 Set a cottonwood post, 48x6x5 ins., with marked stone, 36 ins. in the ground, for angle cor., marked $\angle U I R$ on E., and P L on S. faces, from which;
- A sandstone ledge, 15 ft. high, bears N. $60^{\circ} 30' W.$, 225 lks. dist., marked $+ B O \angle U I R.$
- Same ledge bears N. $31^{\circ} W.$, 330 chs. dist., marked $+ B O$
 $\angle U I R.$
- No other bearing objects available, therefore, I dig pits, 36x36x12 ins., N. $7^{\circ} 38' W.$, and S. $7^{\circ} 38' E.$ of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2-1/2 ft. high, S. $70^{\circ} 45' E.$ of cor.
- Thence S. $55^{\circ} 30' W.$
- 11.00 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for angle cor., marked $\angle U I R$ on N.W., and P L on S.E. faces, from which;
- A large rock in place, 10x10x10 ft. above ground, bears N. $21^{\circ} E.$, 13 lks. dist., marked $+ B O \angle U I R.$
- No other bearing objects available, therefore, I raise a

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- mound of stone, 3 ft. base, 2 ft. high, N. $55^{\circ} 30'$ E. of cor. Pits impracticable.
- Thence S. $29^{\circ} 15'$ W.
- Descend along rough rocky country, under high cliff.
- 10.70 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on W., and P L on E. faces, from which;
- A rock in place, 20x10x5 ft. above ground, bears S. $85^{\circ} 30'$ W., 35 lks. dist., marked X B O \angle U I R.
- No other bearing objects available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $29^{\circ} 15'$ E. of cor. Pits impracticable.
- Thence S. 45° W.
- 2.30 Set a sandstone, 24x15x8 ins., 18 ins. in the ground, for 7 mile and angle cor., marked 7 M on N.E., \angle U I R on N.W., and P L on S.E. faces, from which;
- A cliff, 25 ft. high, bears S. 75° W., 35 lks. dist., marked X B O 7 M \angle U I R.
- No other bearing objects available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. 45° E. of cor. Pits impracticable.
- Land mountainous.
- Soil, sandy clay and rocky, 3d rate.
- Timber, scattering cottonwoods, 80.00 chs.
- Dense willow undergrowth, 80.00 chs.
- Mountainous land, or dense undergrowth, 80.00 chs.
-
- S. $39^{\circ} 45'$ W. on the 8th mile.
- Descend over rough rocky country along foot of cliff.
- 10.40 Set a sandstone, 24x14x10 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, from which;
- A rock in place, 20x10x6 ft. above ground, bears E. $76^{\circ} 15'$ W., 15 lks. dist., marked X B O \angle U I R.
- No other bearing objects available, therefore, I raise a

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	mound of stone, 3 ft. base, 2 ft. high, N. $39^{\circ} 45'$ E. of cor. Pits impracticable.
	Thence S. 50° W.
2.20	Set a sandstone, 24x15x7 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 50° E. of cor. Pits impracticable.
	Thence S. $41^{\circ} 15'$ W.
4.40	Enter draw, draining from the N.W., empties into Green River.
16.00	Leave same draw.
21.30	Angle cor. falls on a rock in place, 10x16x8 ft. above ground, at the exact cor. point, I cut a cross (X), marked \angle U I R N.W., and P L S.E. of the cross, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $41^{\circ} 15'$ E. of cor. Pits impracticable.
	Thence S. $70^{\circ} 45'$ W.
2.10	Angle cor. falls on a rock in place, 20x20x6 ft. above ground, at the exact cor. point, I cut a cross (X), marked \angle U I R on W., and P L on E. of cross, from which; A cliff, 15 ft. high, bears N. $7^{\circ} 30'$ W., 10 lks. dist., marked X B O \angle U I R. No other bearing objects available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $70^{\circ} 45'$ E. of cor. Pits impracticable.
	Thence S. $39^{\circ} 30'$ W.
4.00	Set a sandstone, 24x15x10 ins., 18 ins. in the ground, for 1/2 mile cor., marked 1/2 M on N.E., U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $39^{\circ} 30'$ E. of cor. Pits impracticable.
12.00	Set a sandstone, 24x14x10 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $39^{\circ} 30'$ E. of cor. Pits impracticable.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- Thence S. 7° W.
- 8.00 Angle cor. falls on a rock in place, 10x10x10 ft. above ground. At the exact cor. point I cut a cross (X), marked \angle U I R on W., and P L on E. of cross, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 7° E. of cor. Pits impracticable.
- Thence S. $12^{\circ} 30'$ W.
- 5.90 Angle cor. falls on a rock in place, 15x15x10 ft. above ground. At the exact cor. point I cut a cross (X), marked \angle U I R on W., and P L on E. of cross, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $12^{\circ} 30'$ E. of cor. Pits impracticable.
- Thence S. $14^{\circ} 30'$ W.
- 4.20 Set a sandstone, 28x14x12 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $14^{\circ} 30'$ E. of cor. Pits impracticable.
- Thence S. $50^{\circ} 15'$ W.
- 1.30 Set a sandstone; 28x14x12 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $50^{\circ} 15'$ E. of cor. Pits impracticable.
- Thence S. $33^{\circ} 30'$ W.
- 12.60 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $33^{\circ} 30'$ E. of cor.
- Pits impracticable.
- Land mountainous.
- Soil rocky and sandy, 4th rate.
- Timber, scattering cottonwoods, 80.00 chs.
- Dense willow undergrowth, 80.00 chs.
- Mountainous land, or heavy undergrowth, 80.00 chs.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- S: $13^{\circ} 15'$ W. on the 9th mile.
 Descend gradually along sandy and rocky E. slope.
- 24.60 Top of rocky point, projects S.E., descend.
- 38.90 Descend abruptly, over sandstone ledge.
- 40.00 Set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for 1/2 mile and angle cor., marked 1/2 M on N., \angle U I R on W., and P L on E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $13^{\circ} 15'$ E. of cor. Pits impracticable.
 Thence S. $20^{\circ} 30'$ W.
- 15.30 Set a cottonwood post, 48x5x5 ins. with mkd. stone 36ins. in ground for angle cor., marked \angle U I R on W., and P L on E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $20^{\circ} 30'$ E. of cor. Pits impracticable.
 Thence S. $8^{\circ} 15'$ W.
- 17.70 Set a cottonwood post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on W., and P L on E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $8^{\circ} 15'$ E. of cor.
 Pits impracticable.
 Thence S. 1° W.
- 7.00 Set a cottonwood post, 48x5x5 ins., 36 ins. in the ground, for 9 mile and angle cor., marked 9 M on N., \angle U I R on W., and P L on E. faces, from which:
 A cottonwood, 30 ins. diam., bears N. $52^{\circ} 45'$ W., 70 lks. dist., marked 9 M \angle U I R B T.
 A cottonwood, 8 ins. diam., bears N. $72^{\circ} 15'$ W., 245 lks. dist., marked 9 M \angle U I R B T.
 A cottonwood, 10 ins. diam., bears N. $74^{\circ} 15'$ W., 254 lks. dist., marked 9 M \angle U I R B T.
 A cottonwood, 12 ins. diam., bears N. $76^{\circ} 15'$ W., 258 lks. dist., marked 9 M \angle U I R B T.
 Land mountainous.
 Soil, rocky and sandy, 4th rate.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Timber, scattering cottonwoods, 80.00 chs.

Dense willow undergrowth, 80.00 chs.

Mountainous land, or dense undergrowth, 80.00 chs.

September 2, 1903.

S. $11^{\circ} 30'$ W. on the 10th mile.

Descend gradually through dense willow undergrowth and scattering cottonwoods.

20.00 Set a cottonwood post, 48x5x5 ins., with mkd. stone, 36 ins. in ground for angle cor., mkd. \angle UIR on W., and P L on E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $11^{\circ} 30'$ E. of cor. Pits impracticable.

Thence S. $26^{\circ} 15'$ W.

20.00 This point being opposite initial point for South West Boundary, I set a cottonwood post, 48x5x5 ins., with marked stone, 36 ins. in the ground, for 1/2 mile and angle cor., marked 1/2 M on N., LU I R on NW., and P L on S. E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $26^{\circ} 15'$ E. of cor. Pits impracticable.

Thence N. 72° W.

0.50 Leave dense undergrowth and scattering cottonwood timber, bears N.E. and S.W.

11.00 Ascend abruptly, bears N. and S.

14.40 Intersect the initial point of the South and West Bdy., which is a gray sandstone, 16x11x4 ins. above ground, marked and witnessed as described by the Surveyor General. Land rolling.

Soil, rocky and sandy, 4th rate.

Timber, scattering cottonwoods, 54.40 chs.

Dense willow undergrowth, 54.40 chs.

September 3, 1903.

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

GENERAL DESCRIPTION

Beginning at the Initial Monument of the North East Boundary of the Uintah Indian Reservation, I run S. $67^{\circ} 15'$ E., and at 33.00 chs. I intersect the Right Bank of Green River. The river bed having changed, I was unable to find the old meander cor. on the Right Bank of Green River, as described in original survey, as it falls in river. It was, therefore, impossible for me to re-establish this cor. as instructed. I find that the river bed has been changing all along its course, and as all of the old meander corners have been washed away or destroyed, and not being able to find any trace of same, I concluded that the most satisfactory way to establish this boundary was to follow the present Right Bank of Green River, placing my mile, half-mile, and angle corners at the nearest safe places to said Right Bank.

After crossing the Uintah River, I was unable to find any of the old corners, or to follow the old meander line, as instructed, for reasons already explained, therefore, I continue my line in the manner described above.

At 9-1/2 miles, I leave the meander line along the Right Bank of Green River, and run N. 72° W., 14.40 chs., to the initial point of the South and West boundary.

The soil along the boundary is of nearly every rate. Along the banks of the river, say from 5 to 20 chs. from same, the soil is mostly 2d rate, but outside of that limit, it changes to rocky and stony soil, of the 3d and 4th rates.

The timber consists of a scattering growth of cottonwood. Dense willow undergrowth is found in places.

There are no indications of mineral along this boun^{dy} and the only settlers are at the Ouray Indian Agency, which is situated North of the boundary, at the junction of the Uintah and Green Rivers.

Arthur H. Brown
U.S. Surveyor

SOUTH EAST BOUNDARY, UNTAH INDIAN RESERVATION

There being no Notary Public or other officer authorized to administer oaths, within a reasonable distance, either at the beginning or ending of this survey; in order to save time and expense, I administer the preliminary and final oaths myself.

Richard F. Brown
Surveyor

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LATITUDES AND DEPARTURES OF THE SOUTH EAST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDES		DEPARTURES	
				N.	S.	E.	W.
Initial Point S.E. Bd'y.				Chs.	Chs.	Chs.	Chs.
to First Mile Cor.,		S.67°15' E.	35.00		12.63	30.49	
" "	" "	S.24°30' W.	22.00		20.02		9.12
" "	" "	S.35°30' E.	25.00		20.35	14.52	
From 1st to 2d M.		S.73°45' E.	22.40		6.27	21.50	
" "	" "	S.27°30' E.	14.90		13.22	6.88	
" "	" "	S. 3°45' W.	7.40		7.58		.48
" "	" "	S.32°15' E.	15.70		15.28	8.37	
" "	" "	S.35°45' W.	11.70		9.50		6.84
" "	" "	S.69°45' W.	7.90		2.73		7.41
" 2d	" 3d "	S.69°45' W.	15.40		5.33		14.45
" "	" "	S.48°30' W.	12.60		8.35		9.44
" "	" "	N.82°15' W.	6.30	.85			6.24
" "	" "	S.87°15' W.	27.10		1.29		27.07
" "	" "	S.53°30' W.	4.60		2.74		5.70
" "	" "	S.81°00' W.	14.00		2.19		13.83
" 3d	" 4th M.	S.60°45' W.	10.00		4.89		8.74
" "	" "	S.43°30' W.	30.00		21.76		20.65
" "	" "	S.16°30' W.	19.00		18.22		5.40
" "	" "	S.21°45' E.	9.60		8.92	5.56	
" "	" "	S.88°45' W.	11.40		.25		11.40
" 4th	" 5th "	S.45°00' W.	10.00		7.07		7.07
" "	" "	S. 1°15' W.	21.60		21.60		.47
" "	" "	S.57°45' W.	11.30		6.03		9.55
" "	" "	S.42°45' W.	37.10		27.24		25.19
" 5th	" 6th "	N.84°15' W.	9.70	.97			9.65
" "	" "	N.52°00' W.	7.50	4.49			5.75
" "	" "	N.68°00' W.	23.00	8.62			21.35
" "	" "	N.34°30' W.	11.00	9.07			6.23
" "	" "	N.30°00' E.	5.00	4.32		2.52	
" "	" "	N.42°15' E.	5.00	3.70		3.36	
" "	" "	N.15°45' W.	5.00	4.81			1.36
" "	" "	N.68°15' W.	14.00	5.19			15.00
" 6th	" 7th "	N.68°15' W.	17.00	6.30			15.79
" "	" "	N.84°30' W.	29.50	2.83			29.37
" "	" "	N.70°45' W.	9.50	3.13			8.97
" "	" "	S.55°30' W.	11.00		6.23		9.07
" "	" "	S.29°15' W.	10.70		9.33		5.23
" "	" "	S.45°00' W.	2.30		1.63		1.63
" 7th	" 8th "	S.39°45' W.	10.40		8.00		6.65
" "	" "	S.50°00' W.	2.20		1.41		1.69
" "	" "	S.41°15' W.	21.30		16.02		14.05
" "	" "	S.70°45' W.	2.10		.69		1.93
" "	" "	S.39°30' W.	12.00		9.26		7.63
" "	" "	S. 7°00' W.	8.00		7.94		.97
" "	" "	S.12°30' W.	5.90		5.76		1.28
" "	" "	S.14°30' W.	4.20		4.07		1.05
" "	" "	S.50°15' W.	1.50		.83		1.00
" "	" "	S.33°30' W.	12.60		10.51		6.95
" 8th	" 9th "	S.13°15' W.	40.00		38.94		9.17
" "	" "	S.20°30' W.	15.30		14.35		5.36
" "	" "	S. 8°15' W.	17.70		17.52		2.54
" "	" "	S. 1°00' W.	7.00		7.00		.12
" 9th	" Initial						
Point S.W. Boundary,		S.11°30' W.	20.00		19.60		3.99
" "	" "	S.26°15' W.	20.00		17.94		8.85
" "	" "	N.72°00' W.	14.40	4.45			13.69
Totals				58.73	438.27	91.20	401.38

For recapitulation of latitude and departure tables see book "G".

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Arthur H. Brown

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Southeast Boundary of the Uintah Indian Reservation, state of Utah, showing the respective capacities in which they acted:

John W. Chase , Chainman.

W.W. Evans , Chainman.

Geo. Mechan , Moundman.

....., Moundman.

John H. Cook , Arman.

William Ford , Arman.

Frank Bowden , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Arthur H. Brown,

....., United States Deputy Surveyor, in surveying all those parts or portions of the Southeast Boundary of the Uintah Indian Reservation,

....., of the
....., meridian, state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

John W. Chase , Chainman.

W.W. Evans , Chainman.

Geo. Mechan , Moundman.

....., Moundman.

John H. Cook , Arman.

William Ford , Arman.

Frank. Bowden , Flagman.

Subscribed and sworn to before me this 3rd
day of September, 1891 1903 }

Arthur H. Brown
U.S. Deputy Sur.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Arthur H. Brown, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of July 20, 1893, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Southeast Boundary of the Uintah Indian Reservation.

of the
portion in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Arthur H. Brown

United States Deputy Surveyor

Subscribed by said Arthur H. Brown, and sworn to before me
this 21st day of December 1904 }

ccccc
cccccc
" "

APPROVAL.

Edward H. Anderson
U.S. Surveyor General
for Utah

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, December 31, 1904

The foregoing field notes of the survey of the Southeast Boundary of the Uintah Indian Reservation, in the State of Utah,

executed by Arthur H. Brown and Fred H. Brown, under his contract No. 1774, dated July 20, 1893, having been carefully examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in the Uintah Indian Reservation, in the State of Utah, has been correctly copied from the original notes on file in this office.

United States Surveyor General



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BOOK A-328

FILED

OCT 19 1904
W.H.B.

FIELD NOTES.

OF THE SURVEY OF THE

South and West Boundaries

of the

UINTAH INDIAN RESERVATION

of the Meridian,
State of Utah

AS SURVEYED BY

Arthur H. Brown and Fred W. Brown, United States Deputy Surveyors
Under their Contract No. 264, dated July 20, 1903, I87

Survey commenced September 3, 1903, I87

Survey completed October 17, 1903, I89

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*F.H.B. 171.01
10 189*

NAMES AND DUTIES OF ASSISTANTS.

John W Chase chairman

W. W. Evans chairman

Frank Bonden moundman

Geo. Mecham moundman

John H Cook axman

Martin Ford Jr. flagman

BOOK A-328

INDEX DIAGRAM.

Township _____, *Range* _____

6	5	4	3	2	1
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18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, John W. Chase

and W. V. Evans

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the ground over which we travel, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in surveying, to the best of our skill and ability, and in accordance with instructions given us, in the survey of South and West Boundaries of the Uintah Indian Reservation, state of Utah.

*John W. Chase, Chairman,
W. V. Evans, Chairman.*

Subscribed and sworn to before me this 2nd day of September = 1903

SEAL

We, Frank Borden

and Arthur J. Brown
Geo Mecham

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of South and West Boundaries of the Uintah Indian Reservation, state of Utah

*Frank Borden, Moundman,
Geo Mecham, Moundman.*

Subscribed and sworn to before me this 2nd day of September = 1903

SEAL

We, John H. Cook

Arthur J. Brown
N.B. Deputy Sur

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of South and West Boundaries of the Uintah Indian Reservation, state of

John H. Cook, Axman

Subscribed and sworn to before me this 2nd day of September = 1903

SEAL

I, Marvin Ford Jr.

Arthur J. Brown
N.B. Deputy Sur

do solemnly swear that I will well and truly perform the duties of axman, according to instructions given me, to the best of my skill and ability, in the survey of South and West Boundaries of the Uintah Indian Reservation state

Marvin Ford Jr., Axman

Subscribed and sworn to before me this 2nd day of September = 1903

SEAL

*Arthur J. Brown
N.B. Deputy Sur*

SOUTH AND WEST BOUNDARY, UINTAH INDIAN RESERVATION

CHAINS

Survey commenced September 3, 1903, and executed with a W. & L. E. Gurley Light Mountain Transit (not numbered) with solar attachment. The horizontal limb is provided with double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah, August 20, 1903. I examine the adjustments of the transit and correct the level and collimation errors. Then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during p. m. and a. m. hours, with a meridian determined by observations on Polaris, I proceed as follows: At the 18 mile cor. on the South West Boundary of the Uintah Indian Reservation, which is a sandstone, 8x9x4 ins. above ground, marked and witnessed as described by the Surveyor General, latitude $40^{\circ} 07' 13''$ N., longitude $110^{\circ} 06' 10''$ W., I set $40^{\circ} 07'$ N. on the lat. arc, $7^{\circ} 46'$ N. on the decl. arc, and at 3 h. 00 m. p. m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of the cor. At 8 h. 39 m. p.m., by my watch, which is 2 m. 00 s. slow of l.m.t., I observe Polaris at Eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

September 3, 1903.

September 4, 1903, at 7 h. 00 m. a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 35'$ to the west, and mark the meridian thus determined by cutting a small

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

groove in the stone set September 3, on which the meridian falls 0.4 ins. east of the mark determined by the solar at 9 h. 00m., a.m., l.m.t. I set off 40° 07' N. on the lat. arc, 7° 29' N. on the decl. arc, and mark a point in the meridian thus determined with the solar by a cross on the stone already set 5 chs. N. of my station. This point falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0° 21" west and 0° 16" east of the meridian established by the Polaris observations. Therefore I conclude that the adjustments of the transit are satisfactory.

The magnetic bearing of the true meridian at 9 h. 30 m., a.m., is N. 16° 00' W. The angle thus determined gives the mag. decl. 16° 00' E.

From the 18th mile cor. heretofore described, I run:

N. 89° 45' W., on 19th mile, over mountainous land, descend.

- | | |
|-------|--|
| 0.50 | Bottom of small draw, drains E. ascend. |
| 5.00 | Top of spur, projects N. E. descend. |
| 10.00 | Bottom of descent, bears N. and S. Ascend. |
| 18.00 | Top of ridge, bears N. and S. descend. |
| 32.00 | Bottom of draw, drains N. |
| 40.00 | Set a sandstone, 36x14x6 ins., 27 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E. face; U I R on N., and P. L. on S. faces. Dig pits 36x36x12 ins. N. and S. of stone 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, E. of cor. |

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 45.00 Dry wash, drains N. E. Ascend.
- 80.00 Set a sandstone, 30x14x10 ins., 23 ins. in the ground, for the 19th Mile cor., marked 19' M. on E., U.I.R. on N. and P. L. on S. faces. Dig pits 36x36x12 ins. N. and S. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2 $\frac{1}{2}$ ft. high, E. of cor.
Land mountainous and rolling.
Soil rocky and stony, 4th rate.
No timber.
Mountainous land, or dense undergrowth, on 80.00 chs.
-
- N. 89° 45' W. on the twentieth mile, ascend gently over sandy knolls.
- 20.00 Begin abrupt ascent, bears N. and S.
- 25.00 Top of spur, projects N. E. descend.
- 27.00 Bottom of draw, drains N. E. ascend.
- 38.00 Top of spur, projects N. E. descend.
- 40.00 Set a sandstone, 36x14x10 ins. 27 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. and S. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2 $\frac{1}{2}$ ft. high, E. of cor.
- 45.00 Bottom of draw, drains N. E. ascend.
- 49.50 Top of clay spur, projects N. E., descend across rolling flat.
- 80.00 Set a sandstone, 30x16x10 ins., 23 ins. in the ground, for 20 mile and / angle cor., marked 20' M. on E., \angle U.I.R. on N., and P. L. on S. faces; dig pits 36x36x12 ins. N. and S. of stone 4 ft. dist., and raise a mound of earth, 5 ft. base, 2 $\frac{1}{2}$ ft. high, E. of cor.
Land mountainous and rolling.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- Soil rocky and stony, fourth rate.
- No timber.
- Mountainous land, 49.50 chains.
- September 4, 1903, at this cor. I set off $7^{\circ} 26'$ N. on the decl. arc, and at 12 h. 00 m. M., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 07'$ N.
-
- S. $74^{\circ} 45'$ W. on the 21st mile.
- Descend over mountainous land.
- 10.00 Dry wash, drains N.W., ascend gently.
- 40.00 Set a sandstone, 36x12x6 ins., 27 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on E., U I R on N., and P.L on S. faces; dig pits 36x36x12 ins., N. and S. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high. E. of cor.
- 45.00 Wagon Road, bears N.E. and S.W.
- 45.50 Telephone line, Price to Vernal, bears N.E. and S.W.
- 80.00 Set a sandstone 34x18x8 ins. 26 ins. in the ground, for 21st mile cor., marked 21 M on E., U I R on N. and P.L on S. faces; dig pits 36x36x12 ins. N. and S. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, E. of cor.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- No timber.
- Mountainous land 80.00 chs.
-
- S. $74^{\circ} 45'$ W. on the 22d mile.
- Ascend gradually over rough mountainous land.
- 30.00 Top of spur, projects N. E. descend.
- 36.00 Bottom of dry wash, drains N.W. ascend.

-5-

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 40.00 Set a sandstone, 30x16x8 ins., 23 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P. L. on S. faces; dig pits 36x36x12 ins., N. and S. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, E. of cor.
- 80.00 Set a sandstone, 32x18x6 ins., 24 ins. in the ground, for 22 mile cor., marked 22 M on E., U I R on N. and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- Pits impracticable.
- Land Mountainous.
- Soil rocky and stony, 4th rate.
- No timber.
- Mountainous land 80.00 chs.

September 4, 1903.

S. $74^{\circ} 45'$ W. on the 23d mile.

Ascend gradually over rolling knolls, through dense sagebrush undergrowth.

- 40.00 Set a sandstone, 36x10x6 ins., 27 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. and S. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, E. of cor.
- 80.00 Set a sandstone, 30x12x10 ins., 23 ins. in the ground, for 23 mile cor., marked 23 M on E., U I R on N. and P L on S. faces; dig pits 36x36x12 ins., N. and S. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, E. of cor.
- Land mountainous and rolling.
- Soil rocky and stony, 4th rate.
- No timber.
- Dense Sagebrush undergrowth on 80.00 chs.

South and West Boundary, UNTAH INDIAN RESERVATION

CHAINS

Mountainous Land and Dense Undergrowth, 80.00 chs.

September 5, at 9 h. 00m., a.m., l.M.t., I set off $40^{\circ} 06'$ N. on the lat. arc; $7^{\circ} 08'$ N. on the decl. arc, and determine a meridian with the solar at the 23d mile cor.

Thence I run

S. $74^{\circ} 45'$ W. on the 24th mile.

Ascend gradually over rolling country, through dense sage brush undergrowth.

18.00 Top of ascent, bears N. and S. descend.

26.00 Bottom of descent, bears N. and S. thence nearly level.

40.00 Set a sandstone, 32x12x8 ins., 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. and S. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, E. of cor.

72.00 Bottom of dry wash, drains N. E. ascend abruptly.

80.00 Top of abrupt ascent, bears N. E. and S. W., Set a sandstone, 32x14x6 ins., 24 ins. in the ground, for 24 mile cor., marked 24 M on E., U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. and S. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, E. of cor.

Land rolling, nearly level.

Soil rocky and stony, 4th rate.

No timber.

Dense Sagebrush undergrowth on 80.00 chs.

September 5, at this cor. I set off $70^{\circ} 03'$ N. on the decl. arc, and at 12 h. 00 m. M., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 06'$ N.

SOUTH AND WEST BOUNDARY, MINTAH INDIAN RESERVATION

CHAINS

S. $74^{\circ} 45'$ W. on the 25th mile.

Ascend gradually through dense sagebrush undergrowth.

40.00 Set a sandstone, 30x14x8 ins., 23 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. and S. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, E. of cor.

80.00 Set a sandstone, 20x15x6 ins., 15 ins. in the ground, for 25 mile cor., and angle cor., marked 25 M on E., \angle U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., NW. and SE of stone, ^{4 ft. dist.} and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, E. of cor.

Land rolling, nearly level.

Soil rocky and stony, 4th rate.

No timber.

Dense sagebrush undergrowth, on 80.00 chs.

S. $19^{\circ} 00'$ W. on the 26th mile.

Ascend gradually over rolling land.

38.00 Top of spur, projects W. descend.

40.00 Set a sandstone, 20x15x6 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N., U I R on W., P L on E. faces; dig pits, 36x36x12 ins., E. and W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. of cor.

80.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for 26 mile cor., marked 26 M on N., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., E. and W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. of cor.

Land rolling, nearly level.

Soil rocky and stony, 4th rate.

No timber.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Dense sagebrush undergrowth on 80.00 chs.

September 5, 1903.,

S. 19° 00' W. on the 27th mile.

Ascend gently through dense sagebrush undergrowth.

2.00 Top of ridge, bears E. and W. descend gradually.

8.00 Bottom of draw, drains E. ascend gradually.

40.00 Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N., U I R on W., and P L on E. faces; dig pits, 36x36x12 ins., E. and W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. of cor..

80.00 Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for 27 mile cor., marked 27 M on N., U I R on W., and P L on E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor..

Pits impracticable.

Land rolling.

Soil rocky and stony, 4th rate.

No timber.

Dense sagebrush undergrowth, 80.00 chs.

September 6, 1903, at 9 h. 00 m., a.m., l.m.t., I set off 40° 04' N. on the lat. arc; 6° 45' N. on the decl. arc, and determine a meridian with the solar at the 27 mile cor.

Thence I run.

S. 19° 00' W. on the 28th mile.

Ascend gradually over rolling hills, through dense sagebrush undergrowth.

40.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N., U I R on W., and P L on E. faces; dig pits 36x36x12 ins., E. and W. of stone,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

4 ft. dist., and raise a mound of earth, 5 ft. base,
2½ ft. high, N. of cor.

80.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground,
for 28 mile cor., marked 28 M on N., U I R on W., and
P L on E. faces; dig pits 36x36x12 ins., E. and W. of
stone, 4 ft. dist., and raise a mound of earth, 5 ft.
base, 2½ ft. high, N. of cor.

Land slightly ascending, rolling.

Soil rocky and stony, 4th rate.

No timber.

Dense Sagebrush undergrowth on 80.00 chs.

September 6, at 12 h. 00 m., M., l.m.t., I set off 6° 42'
N. on the decl. arc, and observe the sun on the meridian,
the resulting lat. is 40° 04' N.

S. 19° 00' W. on the 29th mile.

Ascend gradually over rolling country, through dense
sagebrush undergrowth.

40.00 Set a sandstone, 28x14x6 ins., 21 ins. in the ground,
for ½ mile cor., marked ½ M on N., U I R on W., and P L
on E. faces; dig pits, 36x36x12 ins. E. and W. of stone 4 ft. dist.
and raise a mound of earth, 5 ft. base, 2½ ft. high, N.
of cor.

74.00 Descend abruptly, bears E. and W.

79.00 Bottom of dry wash, drains W.; ascend gradually.

80.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground,
for 29 mile cor., marked 29 M on N., U I R on W., and
P L on E. faces; dig pits 36x36x12 ins. N. 71° W. and S. 71° E.
of stone 4 ft. dist., and raise a mound of earth, 5 ft.
base, 2½ ft. high, N. 19° E. of cor.

Land mountainous.

Soil rocky and stony, 4th rate.

No timber.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Dense sagebrush undergrowth on 80.00 chs.

Mountainous land or dense undergrowth on 80.00 chs.

S. 19° 00' W. on the 30th mile.

Ascend gradually over rolling country, through dense sagebrush undergrowth.

40.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N., U I R on W., and P. L. on E. faces; dig pits, 36x36x12 ins., N. 71° W. of stone, and S. 71° E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 19° E. of cor.

60.00 Enter cedar timber, bears E. and W. Leave sagebrush undergrowth.

80.00 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for 30 milé and angle cor., marked 30 M on N., \angle U I R on W., and P L on E. faces; dig pits 36x36x12 ins., N. 78° 45' W. and S. 78° 45' E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 19° E. of cor.
No suitable bearing trees available.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, cedars on 20.00 chs.

Dense sagebrush undergrowth on 60.00 chs.

Mountainous land or dense undergrowth on 80.00 chs.

September 6, 1903.

S. 3° 30' W., on the 31st mile.

Ascend over rolling country through cedar timber.

20.00 Top of bluff, bears N. E. and S. W., descend.

26.00 Bottom of draw, drains N.E. ascend.

40.00 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N., U I R on W., and P L on E. faces; dig pits, 36x36x12 ins., N. 86° 30' W., and

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

S. $86^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $3^{\circ} 30'$ E. of cor. No suitable bearing trees available.

80.00 Set a sandstone, 20x14x8 ins., 15 ins. in the ground, for 31 mile cor., marked 31 M on N., U I R on W., and P L on E., faces; dig pits, 36x36x12 ins., N. $86^{\circ} 30'$ W., and S. $86^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $3^{\circ} 30'$ E. of cor.

No suitable bearing trees available.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, cedars on 80.00 chs.

Mountainous or heavily timbered land on 80.00 chs.

September 7, 1903, at 9 h. 00 m., a.m., L.m.t., I set off $40^{\circ} 01'$ N. on the lat. arc; $6^{\circ} 23'$ N. on the decl. arc, and determine a meridian with the solar at the 31st mile cor.

Thence I run

S. $3^{\circ} 30'$ W. on the 32d mile.

Ascend over mountainous land, through cedar timber.

38.00 Top of ridge, bears E. and W. descend.

40.00 The $\frac{1}{2}$ mile cor. falls on a rock in place, 4x10x6 ins. above ground. At the exact cor. point I cut a cross (X) for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N., U I R on W., and P L on E. of the cross (X), and raise a mound of stone, 3 ft. base, 2 ft. high, N. $3^{\circ} 30'$ E. of the cor.

Pits impracticable.

No suitable bearing trees available.

47.00 Bottom of draw, drains N.E. ascend.

80.00 A cedar tree, 6 ins. diam., for the 32 mile cor., I mark 35 M on N., U I R on W., and P L on E. faces; dig pits 36x36x12 ins., N. $86^{\circ} 30'$ W., and S. $86^{\circ} 30'$ E. of tree.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

4 ft. dist., and raise a mound of earth, 5 ft. base,
5 ft. high, N. $3^{\circ} 30'$ E. of cor.

No suitable bearing trees available.

September 7, at this cor. I set off $6^{\circ} 19'$ N. on the
decl. arc, and at 12 h. 00 m., M., l.m.t., observe the
sun on the meridian, the resulting lat. is $40^{\circ} 00'$ N.
Land mountainous.

Soil rocky and stony, 4th rate.

Timber, cedars on 80.00 chs.

Mountainous land on 80.00 chs.

S. $3^{\circ} 30'$ W. on the 33d mile.

Ascend over mountainous land, through cedar timber.

15.00 Top of ridge, bears E. and W., descend over cliffs and
ledges.

23.00 Bottom of draw, drains E., ascend.

40.00 Set a sandstone, 36x10x8 ins.; 27 ins. in the ground,
for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on N., U I R on W., and P L
on E. faces; dig pits, 36x36x12 ins., N. $86^{\circ} 30'$ W., and
S. $86^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a mound
of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $3^{\circ} 30'$ E. of cor.
No suitable bearing trees available.

78.00 Top of ridge, bears E. and W., descend.

80.00 Set a sandstone, 24x16x6 ins., 18 ins. in the ground,
for 33 mile cor., marked 33 M on N., U I R on W., and
P L on E. faces; dig pits, 36x36x12 ins., N. $86^{\circ} 30'$ W.,
and S. $86^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a
mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $3^{\circ} 30'$ E.
of cor.

No suitable bearing trees available.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, cedars on 80.00 chs.

Mountainous land on 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	S. $3^{\circ} 30'$ W. on the 34th mile.
	Descend over mountainous land through cedar timber.
2.00	Bottom of draw, drains E., ascend.
6.00	Enter pine timber, bears E. and W.
27.00	Top of ridge, bears E. and W., descend.
34.00	Bottom of draw, drains E., ascend.
40.00	Set a sandstone, 20x14x8 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N., U I R on W., and P L on E. faces, from which, A piñon pine, 20 ins. diam., bears N. $34^{\circ} 00'$ E., 65 lks. dist., marked P L, $\frac{1}{2}$ M. B.T. A piñon pine, 8 ins. diam., bears S. $40^{\circ} 00'$ W., 52 lks. dist., marked U I R $\frac{1}{2}$ M B T.
66.00	Top of ridge, bears E. and W., descend over sandstone ledges.
80.00	Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for 34 mile cor., marked 34 M. on N., U I R on W., and P L on E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $3^{\circ} 30'$ E. of cor. Pits impracticable. No suitable bearing trees available. Land mountainous. Soil rocky and stony, 4th rate. Timber, cedars on 6.00 chs., cedars and pines on 74.00 chs. Mountainous land on 80.00 chs.
	September 7, 1903.

	S. $3^{\circ} 30'$ W. on the 35th mile.
	Descend over sandstone boulders and ledges, through pine and cedar timber.
4.00	Bottom of draw, drains E., ascend.
40.00	Set a sandstone, 32x12x6 ins., 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N., U I R on W., and P L on E. faces; from which,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- A pinion pine, 8 ins. diam., bears East 36 lks. dist., marked P L $\frac{1}{2}$ M B T.
- A pinion pine, 7 ins. diam., bears N. 12° W., 45 lks. dist., marked U I R $\frac{1}{2}$ M B T.
- 45.00 Top of spur, projects E., descend.
- 57.00 Bottom of draw, drains N.E., ascend.
- 62.00 Top of small spur, projects N.E., descend.
- 70.00 Bottom of draw, drains N.E., ascend along N. slope of ledge.
- 80.00 The 35 mile cor. falls on a ledge, at the exact cor. point I cut a cross (X) for the 35 mile cor., marked 35 M on N., U I R on W., and P L on E. of the cross (X), and raise a mound of stone, 3 ft. base, 2 ft. high, N. 30° E. of cor.
- Pits impracticable.
- No suitable bearing trees available.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- Timbers, cedars and pines on 80.00 chs.
- Mountainous land on 80.00 chs.
-
- September 8, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $39^{\circ} 58'$ N. on the lat. arc; $6^{\circ} 00'$ N. on the decl. arc, and determine a meridian with the solar at the 35 mile cor.
- Thence I run
- S. $3^{\circ} 30'$ W. on the 36th mile.
- Ascend along N.W. slope of the ridge, through cedar and pine timber.
- 33.00 Top of ridge, bears N.E. and S.W., descend.
- 40.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor. and angle cor., marked $\frac{1}{2}$ M on N., U I R on W., and P L on E. faces; dig pits, 36x36x12 ins. N. 64° W., and S. 64° E. of stone, 4 ft. dist.,

SOUTH AND WEST BOUNDARY, WINTAH INDIAN RESERVATION.

CHAINS

- and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $3^{\circ} 30'$ E. of cor. No suitable bearing trees available. Thence I run S. $48^{\circ} 30'$ W. 30.00 Bottom of draw, drains S.E., ascend. 40.00 Set a sandstone, 20x14x8 ins., 15 ins. in the ground, for the 36 mile cor., marked 36 M on N.E., U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins., N. $41^{\circ} 30'$ W. and S. $41^{\circ} 30'$ E. of stone. 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $48^{\circ} 30'$ E. of cor. No suitable bearing trees available. September 8, 1903, at this cor. I set off $5^{\circ} 57'$ N. on the decl. arc, and at 11 h. 58 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $39^{\circ} 57'$ N. Land mountainous. Soil rocky and stony, 4th rate. Timber, pines and aspens on 80.00 chs. Mountainous land on 80.00 chs.
-
- S. $48^{\circ} 30'$ W., on the 37th mile. Ascend over mountainous land, through pine and cedar timber.
- 12.00 Top of ridge, bears E. and W. Set a sandstone, 30x12x6 ins., 23 ins. in the ground, for angle cor., marked \angle U I R on N.W. face, and P L on S.E. face, and raise a mound of stone, 3 ft. base, 2 ft. high N.E. of cor. Pits impracticable. No suitable bearing trees available. Thence I run S. $81^{\circ} 15'$ W., along top of ridge. 28.00 Set a sandstone, 20x16x8 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Pits impracticable.
68.00	Set a sandstone, 30x12x6 ins., 23 ins. in the ground, for the 37 mile cor., marked 37 M on E., U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $8^{\circ} 45'$ W., and S. $8^{\circ} 45'$ E. of stone, 4 ft. dist., and raise a mound of earth, 3 ft. base, $2\frac{1}{2}$ ft. high, N. $81^{\circ} 15'$ E. No suitable bearing trees available. Land mountainous. Soil rocky and stony, 4th rate. Timber, cedars and pines on 80.00 chs. Mountainous land on 80.00 chs.
	S. $81^{\circ} 15'$ W. on the 38th mile. Ascend over mountainous land along top of ridge, through scattering pines and cedars.
40.00	Set a sandstone, 20x15x8 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor., Pits impracticable. No suitable bearing trees available.
80.00	Set a sandstone, 24x12x6 ins., 18 ins. in the ground, for 38 mile cor., marked 38 M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor., Pits impracticable. No suitable bearing trees available. Land mountainous. Soil rocky and stony, 4th rate. Timber, scattering pines and cedars, on 80.00 chs. Mountainous land, 80.00 chs.
	September 8, 1903. S. $81^{\circ} 15'$ W. on the 39th mile.

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SOUTH AND WEST BOUNDARY, WINTAH INDIAN RESERVATION

CHAINS

Ascend along top of ridge, through scattering pines and cedars.

13.00 Set a sandstone, 20x15x6 ins., 15 ins. in the ground, for an angle cor., marked \angle U I R on N. face, and P L on S. face; dig pits, 36x36x12 ins., N. $15^{\circ} 30'$ W., and S. $15^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $81^{\circ} 15'$ E. of cor. No suitable bearing trees available.

Thence S. $67^{\circ} 45'$ W.

2.00 Leave scattering pine and cedar timber, bears N.W. and S.E.

27.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $22^{\circ} 15'$ W., and S. $22^{\circ} 15'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $67^{\circ} 45'$ E. of cor.

35.00 Enter scattering pines and cedars, bears N.E. and S.W.

67.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for 39 mile cor., marked 39 M on N.E., U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins., N. $22^{\circ} 15'$ W., and S. $22^{\circ} 15'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $67^{\circ} 45'$ E. of cor.

No suitable bearing trees available.

Land mountainous.

Soil rocky and stony, 4th rate.

Timbers, scattering pines and cedars on 47.00 chs.

Mountainous land on 80.00 chs.

September 9, 1903, at 9 h. 00m., a.m., l.m.t., I set off $39^{\circ} 56'$ N. on the lat. arc; $5^{\circ} 38'$ N. on the decl. arc, and determine a meridian with the solar, at the 39 mile cor.

Thence I run

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	S. $67^{\circ} 45'$ W., on the 40th mile.
	Ascend over mountainous land, through scattering pines and cedars.
15.00	Set a sandstone, 20x12x12 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces; dig pits 36x36x12 ins., N. $38^{\circ} 22'$ W., and S. $38^{\circ} 22'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $67^{\circ} 45'$ E. of cor. Thence S. $35^{\circ} 30'$ W.
25.00	Set a sandstone, 20x14x8 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $35^{\circ} 30'$ E. of cor. Pits impracticable.
26.00	Top of ridge, bears N.E. and S.W. descend.
65.00	Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for the 40th mile cor., marked 40 M on N.E., U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high; N. $35^{\circ} 30'$ E. of cor. Pits impracticable. Land mountainous. Soil rocky and stony; 4th rate. Timbers, scattering cedars and pines on 80.00 chs. Mountainous land on 80.00 chs. September 9, at this cor. I set off $5^{\circ} 34'$ N. on the decl. arc, and at 11 h. 58 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $39^{\circ} 56'$ N. ----- S. $35^{\circ} 30'$ W. on the 41st mile. Ascend along N.E. slope of ridge, through scattering pines and cedars.
15.00	Bottom of draw, drains E., ascend.
40.00	Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on N.E., U I R on N.W., and P L on S.E. faces; dig pits 36x36x12 ins., N. $54^{\circ} 30'$ W.,

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SOUTH AND WEST BOUNDARY, UNTAH, INDIAN RESERVATION

CHAINS

- S. $54^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $35^{\circ} 30'$ E. of cor.
- 80.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for 41 mile cor., marked 41 M. on N.E., U I R on N.W., and P L on SE. faces; dig pits, 36x36x12 ins., N. $54^{\circ} 30'$ W., and S. $54^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $35^{\circ} 30'$ E. of cor.
- Land mountainous.
- Soil sandy and clay, 4th rate.
- Timber, scattering cedars and pines on 80.00 chs.
- Mountainous land on 80.00 chs.
-
- S. $35^{\circ} 30'$ W. on the 42d mile.
- Ascend over mountainous land through scattering pine and cedar timber.
- 40.00 Set a sandstone, 20x14x8 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins., N. $54^{\circ} 30'$ W., and S. $54^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high N. $35^{\circ} 30'$ E. of cor.
- 46.60 Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces; dig pits 36x36x12 ins., N. $77^{\circ} 30'$ W., and S. $77^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $35^{\circ} 30'$ E. of cor.
- Thence S. $10^{\circ} 30'$ E.
- 16.00 Bottom of draw, drains S.W., ascend.
- 31.40 Top of ridge, bears N. and S., descend.
- 33.40 Set a sandstone, 30x11x7 ins., 23 ins. in the ground, for 42 mile cor., marked 42 M on N., U I R on W., and P L on E. faces; dig pits 36x36x12 ins., N. $79^{\circ} 30'$ E., and S. $79^{\circ} 30'$ W. of stone, 4 ft. dist., and raise a

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SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $10^{\circ} 30'$ W. of cor.

Land mountainous.

Soil sandy and clay, 4th rate.

Timbers, scattering pines and cedars, 80. 00 chs.

Mountainous land, 80.00 chs.

September 9, 1903.

S. $10^{\circ} 30'$ E. on the 43d mile.

Descend over loose slide rock, through scattering cedars and pines.

6.00 Bottom of draw, drains N.E., ascend.

17.00 Top of spur, projects N.E.; Descend.

17.60 Set a sandstone, 30x14x6 ins., 23 ins. in the ground, for angle cor., marked U I R on W., and P L on E. faces; dig pits 36x36x12 ins., N. $81^{\circ} 00'$ W., and S. $81^{\circ} 00'$ E., of stone, 4 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, N. $10^{\circ} 30'$ W. of cor.

Thence S. $28^{\circ} 30'$ W.

22.40 Set a sandstone, 20x15x6 ins., 15 ins. in the ground, for $\frac{1}{8}$ mile cor., marked $\frac{1}{8}$ M on N.E., U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins., N. $61^{\circ} 30'$ W., and S. $61^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high N. $28^{\circ} 30'$ E. of cor.

60.40 Leave scattering pines and cedars, bears E. and W.

62.40 Set a sandstone, 20x16x6 ins., 15 ins. in the ground, for 43 mile cor., marked 43 M on N.E., U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $28^{\circ} 30'$ E. of cor. Pits impracticable.

Land mountainous.

Soil rocky and sandy, 4th rate.

Timber, scattering pines and cedars, 78.00 chs.

Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

September 10, 1903, at 9 h. 00 m., a.m., l.m.t., I set off $39^{\circ} 53'$ N. on the lat. arc, and $5^{\circ} 14'$ N. on the decl. arc, and determine a meridian with the solar at the 43 mile cor.

Thence I run

S. $28^{\circ} 30'$ W., on the 44th mile.

Descend over mountainous land along head of draws draining N.W.

20.00 Bottom of draw, drains N.W. ascend.

39.00 Top of divide, bears E. and W., thence along top of same.

40.00 Set a sandstone, 20x15x7 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile and angle cor, marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $28^{\circ} 30'$ E. of cor.

Pits impracticable.

Thence S. $70^{\circ} 45'$ W.

Along top of divide.

14.00 Head of draw, drains N., ascend.

40.00 Set a sandstone, 20x15x8 ins., 15 ins. in the ground, for the 44 mile cor., marked 44 M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $70^{\circ} 45'$ E. of cor., Pits impracticable.

Land mountainous.

Soil rocky and stony, 4th rate.

No timber.

Mountainous land, 80.00 chs.

September 10, at this cor., I set off $5^{\circ} 11'$ N. on the decl. arc, and at 11 h. 57m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $39^{\circ} 52'$ N.

S. $70^{\circ} 45'$ W. on the 45th mile.

Ascend gently along top of ridge.

2.00 Bottom of head of draw, drains N.

20.00 Head of draw, drains S.

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- 40.00 Set a sandstone, 20x18x7 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., and angle cor., marked $\frac{1}{2}$ M. on E., U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $10^{\circ} 45'$ W., and S. $10^{\circ} 45'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $70^{\circ} 45'$ E. of cor.
Thence S. $87^{\circ} 45'$ W.
- 22.00 Head of draw, drains S.E.
- 40.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for 45 mile cor., marked 45 M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $87^{\circ} 45'$ E. of cor. Pits impracticable.
Land mountainous.
Soil rocky and stony, 4th rate.
No timber.
Mountainous land, 80.00 chs.
-
- S. $87^{\circ} 45'$ W., on the 46th mile.
Ascend along top of ridge, over mountainous land.
- 4.00 Enter scattering cedars and pines, bears N. and S.
- 12.00 Head of draw, drains N.E.
- 25.00 Top of spur, projects N.E.
- 40.00 Set a sandstone, 20x15x7 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces, from which,
A pine, 14 ins. diam., bears S. $4^{\circ} 00'$ W., 184 lks.
dist., marked P L $\frac{1}{2}$ M B T.
No other bearing trees within limits, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $87^{\circ} 45'$ E. of cor. Pits impracticable.
- 45.00 Bottom of draw, drains N.E..
- 75.00 Ridge bears NW. and SE.
- 80.00 Set a sandstone, 24x12x8 ins., 18 ins. in the ground,

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SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

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for 46 mile cor., marked 46 M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $87^{\circ} 45'$ E. of cor. Pits impracticable. Land mountainous.

Soil rocky and stony, 4th rate.

Timber, scattering pines and cedars, 80.00 chs.

Mountainous land, 80.00 chs.

September 10, 1903.

S. $87^{\circ} 45'$ W. on the 47th mile.

Descend abruptly along top of rough rocky ridge, through scattering pine and cedar timber.

40.00 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $87^{\circ} 45'$ E. of cor.

Pits impracticable.

X 80.00 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for 47 mile cor., marked 47 M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $87^{\circ} 45'$ E. of cor. Pits impracticable.

Land mountainous.

Soil rocky and stony, 4th rate.

Timbers, scattering pines and cedars, 80.00 chs.

Mountainous land, 80.00 chs.

September 11, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $39^{\circ} 53'$ N. on the lat arc; $4^{\circ} 52'$ N. on the decl. arc, and determine a meridian with the solar, at the 47 mile cor.

Thence I run:

S. $87^{\circ} 45'$ W. on the 48th mile.

Ascend along top of ridge, through scattering pines and cedars.

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- 10.40 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for an angle cor., marked \angle U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $87^\circ 45'$ E. of cor. Pits impracticable.
Thence N. $54^\circ 30'$ W.
- 17.00 Head of draw, drains S.W.
- 23.00 Top of ridge, bears N. and S., descend.
- 29.60 Set a sandstone, 24x15x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base 2 ft. high, S. $52^\circ 30'$ E. of cor. Pits impracticable.
- 52.00 Head of draw, drains N.E.
- 67.00 Point of ridge, projects N.E.
- 69.60 Set a sandstone, 20x14x7 ins., 15 ins. in the ground, for 48 mile cor., marked 48 M on S.E., U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $54^\circ 30'$ E. of cor.
Pits impracticable.
Land mountainous.
Soil rocky and stony, 4th rate.
Timber, scattering pines and cedars, 80.00 chs.
Mountainous land on 80.00 chs.
- N. $54^\circ 30'$ W., on the 49th mile.
Ascend gradually along top of ridge, through scattering pines and cedars?
- 7.00 Head of draw, drains N.E.
- 37.00 Ridge spur projects NE.
- 40.00 Set a sandstone, 20x15x8 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., and angle cor., marked $\frac{1}{2}$ M on S.E., \angle U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $54^\circ 30'$ E. of cor.
Pits impracticable.
Thence N. $80^\circ 15'$ W.
- 15.00 Head of draw, drains N.E.

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- 40.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for 49 mile cor., marked 49 M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft high, S. $80^{\circ} 15'$ E. of cor. Pits impracticable.
Land mountainous.
Soil rocky and stony, 4th rate.
Timber, scattering pines and cedars, 80.00 chs.
Mountainous land, 80.00 chs.
September 11, 1903, at this cor. I set off $4^{\circ} 49'$ N. on the decl. arc, and at 11 h. 57 m., a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $39^{\circ} 54'$ N.
-
- N. $80^{\circ} 15'$ W. on the 50th mile.
Over mountainous land, along top of ridge, through scattering cedars and pines.
- 5.00 Spur of ridge projects N. E.
- 40.00 Set a sandstone, 20x16x7 ins. 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on E., U I R on N., and P L. on S. faces; dig pits, 36x36x12 ins., N. $9^{\circ} 45'$ E., and S. $9^{\circ} 45'$ W., of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $80^{\circ} 15'$ E. of cor.
- 48.70 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for an angle cor., marked \angle U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $80^{\circ} 15'$ E. of cor.
Pits impracticable.
Thence N. $14^{\circ} 45'$ W.
- 31.30 Set a sandstone, 24x14x7 ins., 18 ins. in the ground, for 50 mile and angle cor., marked 50 M on S., \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $14^{\circ} 45'$ E. of cor. Pits impracticable.
Land mountainous.

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CHAINS	Soil rocky and stony, 4th rate.
	Timbers, scattering cedars and pines, 80.00 chs.
	Mountainous land, 80.00 chs.

	N. 57° 00' W. on the 51st mile.
	Over mountainous land along top of ridge through scattering cedars and pines.
10.00	Head of draw, drains S.W.
32.00	Head of draw, drains N.E.
40.00	Set a sandstone, 24x15x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on S.E., U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. 33° E., and S. 33° W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2 ft. high, S. 57° E. of cor.
60.00	Spur of ridge bears N.E. and S.W.
80.00	Set a sandstone, 20x14x10 ins., 15 ins. in the ground, for 51 mile cor., marked 51 M on S.E., U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 57° E. of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky and stony, 4th rate.
	Timber, scattering pines and cedars, 80.00 chs.
	Mountainous land, 80.00 chs.

	N. 57° 00' W. on the 52d mile.
	Descend over mountainous land; along top of ridge, through scattering pine and cedar timber.
2.00	Head of draw, drains S.W. ascend.
23.00	Top of ascent.
40.00	Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on S.E., U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3

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CHAINS

ft. base, 2 ft. high, S. 57° E. of cor.

Pits impracticable.

Thence S. 61° 30' W.

16.00 Bottom of draw, drains N. Enter aspen timber, bears N. and S.

33.00 Leave aspen timber, bears N. and S.

40.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for 52 mile cor., marked 52 M on N.E., U.I.R on N.W., and P.L on S.E. faces; dig pits 36x36x12 ins., N. 28° 30' W., and S. 28° 30' E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2½ ft. high, N. 61° 30' E. of cor.

Land mountainous.

Soil rocky and sandy, 4th rate.

Timber, scattering cedars and pines, 80.00 chs., aspens on 17.00 chs.

Mountainous land, 80.00 chs.

September 12, 1903, at 9 h. 00m., a.m., l.m.t., I set off 39° 54' N. on the lat. arc; 40° 29' N. on the decl. arc, and determine a meridian with the solar at the 52 mile cor.

Thence I run

S. 61° 30' W., on the 53d mile.

Over mountainous land, along top of ridge, through scattering pines and cedars.

8.00 Enter aspen timber, bears N.W. and S.E.

13.00 Leave aspen timber, bears N.W. and S.E.

40.00 Set a sandstone, 24x14x7 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., and angle cor., marked $\frac{1}{2}$ M on N.E., U.I.R on N.W., and P.L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 61° 30' E. of cor. Pits impracticable.

Thence S. 88° 45' W.

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CHAINS

- 40.00 Set a sandstone, 21x15x6 ins., 16 ins. in the ground, for 53 mile and angle cor., marked 53 M on N.E., \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $88^{\circ} 45'$ E. of cor. Pits impracticable.
Land mountainous.
Soil rocky and stony, 4th rate.
Timber, scattering pines and cedars, 80.00 chs., aspens 5.00 chs.
Mountainous land 80.00 chs.
-
- September 12, at noon hour, sky overcast, and observation impossible.
-
- S. $64^{\circ} 15'$ W. on the 54th mile.
Over mountainous land, along top of ridge, through scattering cedars and pines.
- 8.00 Head of draw, drains N.
- 40.00 Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins., N. $25^{\circ} 45'$ W., and S. $25^{\circ} 45'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $64^{\circ} 15'$ E. of cor.
- 77.00 Turn in ridge.
Set a sandstone, 36 x 24x6 ins., 27 ins. in the ground, for angle cor., marked \angle U I R on the N.W., and P L on the S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $64^{\circ} 15'$ E. of cor.
Thence N. $38^{\circ} 00'$ W.
- 3.00 Set a sandstone, 20x16x9 ins., 15 ins. in the ground, for 54 mile cor., marked 54 M on S.E., U I R on N.E., and P L on S.W. faces, from which A pinion pine, 14 ins. diam., bears N. $82^{\circ} 00'$ W.,

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80 lks. dist., marked P L 54 M B T.

A pinion pine, 14 ins. diam., bears N. 60° W., 120 lks. dist., marked P L 54M B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 38° 00' E. of cor. Pits impracticable.

Land mountainous.

Soil rocky and clay, 4th rate.

Timber, scattering cedars and pines, 80.00 chs.

Mountainous land, 80.00 chs.

N. 38° 00' W., on the 55 mile.

7.00 Set a sandstone, 38x8x8 ins., 29 ins., in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 38° 00' E. of cor. Pits impracticable.

Thence N. 72° 45' W.

33.00 Set a sandstone, 20x14x9 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 72° 45' E. of cor. Pits impracticable.

57.00 Set a sandstone, 20x16x6 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on the N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 72° 45' E. of cor. Pits impracticable.

Thence S. 65° 15' W.

4.00 Head of draw, drains N.

16.00 Set a sandstone, 24x17x6 ins., 18 ins. in the ground, for 55 mile and angle cor., marked 55 M on N.E., \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 65° 15' E. of cor. Pits impracticable.

Land mountainous.

Soil rocky and stony, 4th rate.

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CHAINS

Timber, scattering cedars and pines, 80.00 chs.

Mountainous land, 80.00 chs.

September 12, 1903.

N. $88^{\circ} 45'$ W., on the 56 mile.

Over mountainous land, along top of ridge, through scattering pines and cedars.

8.00 Head of draw, drains N.

22.00 Spur, projects S.W.

40.00 Set a sandstone, $20 \times 16 \times 7$ ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces; dig pits, $36 \times 36 \times 12$ ins., N. $1^{\circ} 15'$ E., and S. $1^{\circ} 15'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $88^{\circ} 45'$ E. of cor.

48.00 Head of draw, drains N.

80.00 Set a pine post, $36 \times 8 \times 6$ ins., with marked stone, 24 ins. in the ground, for 56 mile cor., marked 56 M on E., U I R on N., and P L on S. faces; dig pits $36 \times 36 \times 12$ ins., N. $1^{\circ} 15'$ E., and S. $1^{\circ} 15'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $88^{\circ} 45'$ E. of cor.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, scattering cedars and pines, 80.00 chs.

Mountainous land, 80.00 chs.

September 13, 1903, at 9 h. 00 m., a.m., l.m.t., I set off $39^{\circ} 54'$ N. on the lat. arc, $4^{\circ} 06'$ N. on the decl. arc, and determine a meridian with the solar, at the 56 mile cor.

Thence I run

N. $88^{\circ} 45'$ W., on the 57th mile.

Over mountainous land, along top of ridge, through scattering pines and cedars.

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10.00	Top of ridge, bears N.W. and S.E.
10.30	Set a pine post, 36x8x8 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits 36x36x12 ins. N. $4^{\circ} 40'$ W., and S. $4^{\circ} 40'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $88^{\circ} 45'$ E. of cor. Thence S. $79^{\circ} 30'$ W.
10.00	Head of gulch, drains N.W.
26.70	Set a sandstone, 20x17x6 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, from which A pine, 6 ins. diam., bears S. 52° E., 30 lks. dist., marked \angle P L B T No other trees available; therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $79^{\circ} 30'$ E. of cor. Pits impracticable. Thence N. $52^{\circ} 45'$ W.
3.00	Set a sandstone, 36x7x7 ins., 27 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.E., \angle U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $27^{\circ} 00'$ E., and S. $27^{\circ} 00'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $52^{\circ} 45'$ E. of cor. Thence N. $73^{\circ} 15'$ W.
40.00	Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for the $\frac{1}{2}$ mile and angle cor., marked 57 M on E., \angle U I R on N., and P L on S. faces, from which, a pine, 14 ins. diam., bears N. $46^{\circ} 00'$ E., 125 lks. dist., marked \angle U I R 57 M B T. A pine, 10 ins. diam., bears N. $32^{\circ} 00'$ W., 86 lks. dist., marked \angle U I R 57 M B T. No other suitable bearing trees available, therefore, I dig pits, 36x36x12 ins., N. $5^{\circ} 10'$ W., and S. $5^{\circ} 10'$

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E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $73^{\circ} 15'$ E. of cor.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, scattering pines and cedars, 80.00 chs.

Mountainous land, 80.00 chs.

September 13, 1903, at this cor. I set off $40^{\circ} 03'$ N. on the decl. arc, and at 11 h. 56 m., a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ} 54'$ N.

S. $63^{\circ} 00'$ W., on the 58th mile.

Over mountainous land, along top of ridge, through scattering pines and cedars.

18.00 Set a pine post, 36x6x6 ins., 24 ins. in the ground, with marked stone, for angle cor., marked \angle U I R on N.W., and P L on SE? faces; dig pits, 36x36x12 ins., N. $5^{\circ} 15'$ W., and S. $5^{\circ} 15'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 63° E. of cor.

Thence N. $73^{\circ} 30'$ W.

22.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on E., U I R on N., and P L on S. faces, from which A pine, 8 ins. diam., bears N. $15^{\circ} 00'$ E., 120 lks. dist., marked UIR $\frac{1}{2}$ M B T.

A pine, 30 ins. diam. bears S. 30° W., 54 lks. dist., marked P L $\frac{1}{2}$ M B T.

35.00 Head of draw, drains N.

37.00 Leave scattering pines and cedars, bears N. and S.

40.00 Set a sandstone, 20x14x10 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $35^{\circ} 45'$ E. and S. $35^{\circ} 45'$ W. of stone, 4 ft. dist., and raise a mound

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	of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $73^{\circ} 30'$ E. of cor. Thence N. $35^{\circ} 00'$ W.
11.00	Set a sandstone, 20x16x9 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $32^{\circ} 07' 30''$ E. and S. $32^{\circ} 07' 30''$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $35^{\circ} 00'$ E. of cor. Thence N. $80^{\circ} 45'$ W.
11.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 58 mile cor., marked 58 M on E., U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $9^{\circ} 15'$ E., and S. $9^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 80° $45'$ E. of cor.
	Land mountainous.
	Soil sandy and clay, 4th rate.
	Timbers, scattering pines and cedars, 55.00 chs.
	Mountainous land, 80.00 chs.

	N. $80^{\circ} 45'$ W. on the 59th mile.
	Ascend over rough mountainous land, along top of ridge.
9.00	Top of ridge bears N.E. and S.W., thence nearly level.
21.50	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $3^{\circ} 10'$ W., and S. $3^{\circ} 10'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $80^{\circ} 45'$ E. of cor. Thence S. $74^{\circ} 30'$ W.
10.50	Set a pine post, 36x6x5 ins., with a marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N. and P L on S. faces; dig pits, 36x36x12 ins. N. $6^{\circ} 37'$ E., and S. $6^{\circ} 37'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $74^{\circ} 30'$ E. of cor. Thence N. $61^{\circ} 15'$ W.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 8.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $28^{\circ} 45'$ E., and S. $28^{\circ} 45'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $61^{\circ} 15'$ E. of cor.
- 14.60 Enter dry pines, bear N. and S.
- 19.00 Head of draw, drains S.E. Leave dry pine timber, bears N. and S.
- 36.00 Head of draw, drains S.W. Enter scattering pine timber.
- 41.30 Set a sandstone, 20x15x6 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $0^{\circ} 30'$ E., and S. $0^{\circ} 30'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $61^{\circ} 15'$ E. of cor.
Thence S. $62^{\circ} 15'$ W.
- 6.70 A pine tree, 10 ins. diam., for 59th mile cor., marked 59 M on E., U I R on N., and P L on S. side, from which A pine, 14 ins. diam., bears N. 30° W., 36 lks. dist., marked U I R 59 M B T.
A pine, 10 ins. diam., bears S. 82° W., 75 lks. dist., marked P L 59 M B T.
A pine, 10 ins. diam., bears S. 8° E. 47 lks. dist., marked P L 59 M B T.
Land mountainous.
Soil clay and shale, 4th rate.
Timber, dry pines, 4.40 chs., scattering pines, 12.00 chs.
Mountainous land, 80.00 chs.
- September 13, 1903.
-
- S. $62^{\circ} 15'$ W. on the 60th mile.
Ascend along top of ridge, through scattering pine timber.
- 4.00 Set a pine post, 36x6x6 ins., with a marked stone, 24

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CHAINS

- ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces; dig pits 36x36x12 ins., N. $16^{\circ} 07'$ W., and S. $16^{\circ} 07'$ E., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $62^{\circ} 15'$ E. of cor.
- Thence S. $86^{\circ} 00'$ W. Ascend abruptly.
- 7.00 Set a sandstone, 24x14x7 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N., P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $86^{\circ} 00'$ E. of cor. Pits impracticable.
- Thence N. $41^{\circ} 45'$ W.
- 9.10 Set a sandstone, 24x17x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, from which
A pine, 10 ins. diam, bears N. $4^{\circ} 00'$ E., 52 lks. dist., marked \angle U I R B T.
No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $41^{\circ} 45'$ E. of cor. Pits impracticable.
- Thence N. $89^{\circ} 15'$ W.
- 19.90 Set a sandstone, 20x18x7 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $89^{\circ} 15'$ E. of cor. Pits impracticable.
- 35.90 Head of draw, drains N.E., descend.
- 53.90 Bottom of descent, descend abruptly.
- 59.90 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 60 mile cor., marked 60 M on E., U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. $0^{\circ} 45'$ E., and S. $0^{\circ} 45'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $89^{\circ} 15'$ E. of cor.
- Land mountainous.
- Soil rocky, and shale, 4th rate.

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CHAINS

Timber, scattering pines, 80.00 chs.

Mountainous land, 80.00 chs.

September 14, 1903, at 9 h. 00 m., a.m., l.m.t., I set off $39^{\circ} 54'$ N. on the lat. arc, $3^{\circ} 43'$ N. on the decl. arc, and determine a meridian with the solar, at the 60 mile cor.

Thence I run

N. $89^{\circ} 15'$ W. on the 61st mile.

Ascend abruptly along top of ridge, through scattering pines.

10.00 Top of abrupt ascent, descend.

22.00 Bottom of descent.

23.00 Set a sandstone, 20x14x8 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which

A pine, 8 ins. diam., bears N. 60° E., 214 lks. dist., marked \angle U I R B T.

A pine, 6 ins. diam., bears S. 36° W., 40 lks. dist., marked \angle P L B T.

Thence N. $71^{\circ} 30'$ W.

17.00 Set a sandstone, 20x14x8 ins., 16 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $18^{\circ} 30'$ E., and S. $18^{\circ} 30'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $71^{\circ} 30'$ E. of cor.

22.00 Head of draw, drains S.W. ascend abruptly.

36.00 Top of spur, projects S.W., descend.

37.00 Set a sandstone, 20x16x6 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $0^{\circ} 30'$ W., and S. $0^{\circ} 30'$ E., $\frac{1}{4}$ ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $71^{\circ} 30'$ E. of cor.

Thence S. $70^{\circ} 30'$ W.

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- 7.00 Bottom of descent.
- 20.00 Set a sandstone, 24x16x8 ins., 18 ins. in the ground, for 61 mile and angle cor., marked 61 M on N.E., \angle U I R on N.W., and P L on S.E. faces, from which A pine, 20 ins. diam., bears N. 42° E., 115 lks. dist., marked \angle U I R, 61 M B T.
A pine, 10 ins. diam., bears N. 26° E., 165 lks. dist., marked \angle U I R 61 M B T.
No other bearing trees within limits, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, N. $70^\circ 30'$ E. of cor.
Land mountainous.
Soil rocky and stony, 4th rate.
Timber, scattering pines, 80.00 chs.
Mountainous land, 80.00 chs.
September 14, 1903, at this cor, I set off $3^\circ 40'$ N. on the decl. arc, and at 11 h., 56 m., a.m., I.m.t., observe the sun on the meridian, the resulting lat. is $39^\circ 55'$ N.
-
- N. $64^\circ 45'$ W. on the 62d mile.
Ascend along top of ridge, through scattering pines.
- 23.70 Top of spur, projects S.W.
Set a sandstone, 20 x 18x7 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $41^\circ 30'$ E., and S. $41^\circ 30'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $64^\circ 45'$ E. of cor.
Thence N. $32^\circ 15'$ W.
- 6.30 Head of draw, drains S.W.
- 16.30 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $32^\circ 15'$ E. of cor. Pits impracticable.

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CHAINS

- 56.30 Set a sandstone, 24x13x9 ins., 18 ins. in the ground, for 62 mile cor., marked 62 M. on S.E., U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $32^{\circ} 15'$ E. of cor.
Pits impracticable.
Land mountainous.
Soil rocky and stony, 4th rate.
Timber, scattering pines, 80.00 chs.
Mountainous land, 80.00 chs.
-
- N. $32^{\circ} 15'$ W., on the 63d mile.
Ascend along top of ridge, through scattering pine timber.
- 10.00 Set a sandstone, 20x16x6 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $32^{\circ} 15'$ E. of cor.
Pits impracticable.
Thence S. $73^{\circ} 00'$ W.
Ascend along top of divide, between Sour Canyon and Indian Creek.
- 10.50 Set a sandstone, 20x16x6 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 73° E. of cor. Pits impracticable.
Thence S. $37^{\circ} 45'$ W.
- 19.50 Set a sandstone, 20x16x6 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.E. faces, from which
A pine, 8 ins. diam., bears N. 88° W., 75 lks. dist., marked U I R $\frac{1}{2}$ M B T.
A pine, 12 ins. diam., bears S. 86° E., 135 lks. dist., marked P L $\frac{1}{2}$ M B T.
No other trees within limits, therefore I raise a mound

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SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

- CHAINS of stone, 3 ft. base, 2 ft. high, N. $37^{\circ} 45'$ E. of cor.
 Pits impracticable.
- 24.50 Bottom of saddle in ridge, ascend.
- 54.50 Top of spur, projects S.E.
- 59.50 Set a pine post, 36x7x6 ins., with marked stone, 24 ins. in the ground, for 63 mile and angle cor., marked 63 M on N.E., \angle U I R on N.W., and P L on S.E. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. $37^{\circ} 45'$ E. of cor. Pits impracticable.
 Land mountainous.
 Soil rocky and stony, 4th rate.
 Timber, scattering pine, 80.00 chs.
 Mountainous land, 80.00 chs.

September 14, 1903.

- S. $38^{\circ} 15'$ W., on the 64th mile.
 Ascend abruptly, along top of ridge, through scattering pine timber.
- 3.00 Top of ascent, descend.
- 16.00 Head of draw, drains W., ascend. Enter dense pine timber, bears E. and W.
- 30.00 Leave dense pine timber, bears E. and W. Enter scattering pines.
- 36.00 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, from which,
 A pine, 16 ins. diam., bears N. 38° W., 125 lks. dist., marked \angle U I R B T.
 A pine, 10 ins. diam., bears N. 78° E., 120 lks. dist., marked \angle P L B T.
 No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, N. $38^{\circ} 15'$ E. of cor. Pits impracticable.
 Thence N. 61. $30'$ W.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 4.00 Set a sandstone, 20x14x8 ins., 15 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.E., \angle U I R on N.E., and P L on S.W. faces, from which A pine, .22 ins. diam., bears N. 44° E., 52 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T.
No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $61^\circ 30'$ E. of cor. Pits impracticable.
Thence S. $77^\circ 15'$ W.
- 5.00 Head of draw, drains S.W.
- 16.50 Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $77^\circ 15'$ E. of cor. Pits impracticable.
Thence N. $83^\circ 45'$ W.
- 7.50 Head of draw, drains S. ascend.
- 23.50 Top of spur, projects S.W.
Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for 64 mile cor., marked 64 M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $83^\circ 45'$ E. of cor. Pits impracticable.
Land mountainous.
Soil stony and shale, 4th rate.
Timber, scattering pines, 80.00 chs.
Mountainous land, 80.00 chs.
-
- September 15, 1903, at 9 h. 00m., a.m., l.m.t., I set off $39^\circ 54'$ N. on the lat. arc; $3^\circ 20'$ N. on the decl. arc, and determine a meridian with the solar at the 64 mile cor.
Thence I run
N. $83^\circ 45'$ W. on the 65th mile.
Descend along top of ridge, through scattering pine timber.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 12.00 Head of draw, drains S., ascend.
- 30.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which, A pine, 12 ins. diam., bears N. 40° E. 53 lks. dist., marked \angle U I R B T. A pine, 10 ins. diam., bears S. 48° E., 82 lks. dist., marked \angle P L B T. No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $83^\circ 45'$ E. of cor. Pits impracticable. Thence S. $60^\circ 15'$ W.
- 10.00 Set a pine post, 36x6x6 ins., with a marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.E. faces, dig pits, 36x36x12 ins., N. $11^\circ 45'$ W., and S. $11^\circ 45'$ E.; of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $60^\circ 15'$ E. of cor.
- 33.30 Set a sandstone, 20x17x7 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $60^\circ 15'$ E. of cor. Pits impracticable. Thence S. $48^\circ 45'$ W.
- 7.00 Head of draw, drains N.W.
- 16.70 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 65 mile cor., marked 65 M on N.E., U I R on N.W., and P L on S.E. faces; from which, a pine, 6 ins. diam., bears S. 18° E., 54 lks. dist., marked P L 65 M B T. A pine, 8 ins. diam., bears S. 66° E., 165 lks. dist., marked P L 65 M B T. No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $41^\circ 15'$ W. and S. $41^\circ 15'$ E. of post 4ft. dist. and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	N. $48^{\circ} 45'$ E. of cor. Land mountainous. Soil rocky and stony, 4th rate. Timbers, scattering pines, 80.00 chs. Mountainous land, 80.00 chs.

	S. $48^{\circ} 45'$ W. on the 66th mile. Descend along top of ridge, through scattering pine timber.
10.00	Bottom of saddle, in ridge, ascend.
24.00	Set a sandstone, 24x16x7 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on the N.W., and P.L. on the S.E. faces, from which A pine, 12 ins. diam., bears N. 30° E., 90 lks. dist., marked \angle U I R B T. A pine, 10 ins. diam., bears S. 18° W., 115 lks. dist., marked \angle P L B T. No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, N. $48^{\circ} 45'$ E. of cor. Pits impracticable.
	Thence N. $60^{\circ} 45'$ W.
6.00	Bottom of saddle in ridge.
13.20	Set a pine post, 36x7x6 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.E. faces, from which A pine, 12 ins. diam., bears N. 12° E. 35 lks. dist., marked \angle U I R B T. A pine, 10 ins. diam., bears S. 40° W., 54 lks. dist., marked \angle P L B T. No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $60^{\circ} 45'$ E. of cor. Pits impracticable.
	Thence S. $37^{\circ} 45'$ W.
2.80	Set a sandstone, 20x16x6 ins., 15 ins. in the ground,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.E. faces, from which
A pine, 12 ins. diam., bears N. 20° W., 105 lks.
dist., marked U I R $\frac{1}{2}$ M B T.
- No other bearing trees available, therefore, I raise
a mound of stone, 3 ft. base, 2 ft. high, N. 37° 45' E.
of cor. Pits impracticable.
- 7.80 Bottom of saddle in ridge, ascend.
- 16.20 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.
in the ground, for angle cor., marked \angle U I R on N.W.,
and P L on S.E. faces, from which
A pine, 10 ins. diam., bears N. 42° W. 134 lks. dist.,
marked \angle U I R B T.
A pine, 10 ins. diam., bears S. 18° E., 45 lks. dist.,
marked \angle P L B T.
No other bearing trees available, therefore, I raise
a mound of stone, 3 ft. base, 2 ft. high, N. 37° 45'
E. of cor. Pits impracticable.
Thence N. 78° 00' W.
- 3.50 Enter dense pines, bears E. and W.
- 20.60 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.
in the ground, for angle cor., marked \angle U I R on N. and
P L on S. faces, from which,
A pine, 10 ins. diam., bears N. 28° W., 98 lks. dist.,
marked \angle U I R B T.
A pine, 12 ins. diam., bears S. 30° W., 124 lks. dist.,
marked \angle P L B T.
No other bearing trees available, therefore, I raise a
mound of stone, 3 ft. base, 2 ft. high, S. 78° E. of cor.
Pits impracticable.
Thence S. 48° 15' W.
- 6.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.
in the ground, for 66 mile cor., marked 66 M on N.E.,
U I R on N.W., and P L on S.E. faces, from which,

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CHAINS

A pine, 12 ins. diam., bears N. 12° W., 32 lks. dist., marked U I R 66 M B T.

A pine, 10 ins. diam., bears N. 48° W., 30 lks. dist., marked U I R 66 M B T.

A pine, 12 ins. diam., bears S. 46° W., 45 lks. dist., marked P. L. 66 M B T.

A pine, 8 ins. diam., bears S. 30° E., 60 lks. dist., marked P L 66 M B T.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, dense pines, 23.10 chs. scattering pines, 56.90 chs.

Mountainous land, 80.00 chs.

September 15, 1903, at noon hour, sky was overcast, and observations impossible.

S. 48° 15' W., on the 67th mile.

Along top of ridge, through dense pine timber.

17.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked U I R on N.W. face, and P L on S.E. face, from which,

A pine, 16 ins. diam., bears N. 56° W., 52 lks. dist., marked U I R B T.

A pine, 20 ins. diam. bears S. 14° W., 46 lks. dist., marked P L B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. 48° 15' E. of cor. Pits impracticable.

Thence N. 85° 15' W.

23.00 Set a pine post, 36x7x5 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces, from which,

A pine, 10 ins. diam., bears N. 72° E. 275 lks. dist., marked U I R $\frac{1}{2}$ M B T.

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CHAINS

A pine, 14 ins. diam., bears S. 80° E., 228 lks. dist., marked \angle P L $\frac{1}{2}$ M B. T.

No other bearing trees available, therefore I raise a mound of stone 3 ft. base, 2 ft. high, S. $85^{\circ} 15'$ E. of cor. Pits impracticable.

Thence S. 49° W.

20.00 Head of draw, drains N.W., ascend, through fallen timber, leave dense pines.

25.30 Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. $25^{\circ} 15'$ W., and S. $25^{\circ} 15'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 49° E. of cor.

Thence S. $80^{\circ} 30'$ W.

14.70 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 67 mile and angle cor., marked 67 M on E., \angle U I R on N., and P L on S. faces, dig pits, 36x36x12 ins. N. $21^{\circ} 45'$ W., and S. $21^{\circ} 45'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $80^{\circ} 30'$ E. of cor.

Land mountainous.

Soil rocky and clay, 4th rate.

Timber, dense pine : , 60.00 chs.,

Mountainous land, 80.00 chs.

S. 56° W., on the 68th mile.

Ascend through scattering pine timber, along top of ridge.

25.00 Set a sandstone, 20x14x6 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, from which,

A pine, 6 ins. diam., bears N. 20° W., 110 lks. dist., marked \angle U I R B T.

A pine, 10 ins. diam. bears S. 32° E., 96 lks. dist.,

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CHAINS	
	marked \angle P L B T.
	Thence N. $79^{\circ} 45'$ W.
15.00	Set a sandstone, 24x17x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $10^{\circ} 15'$ E., and S. $10^{\circ} 15'$ W., of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $79^{\circ} 45'$ E. of cor.
47.00	Descend abruptly.
51.00	Bottom of descent, ascend.
55.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 68 mile cor., marked 68 M on E., U I R on N., and P L on S. faces; dig pits, 36x36x12 ins. N. $10^{\circ} 15'$ E., and S. $10^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $79^{\circ} 45'$ E. of cor.
	Land mountainous.
	Soil rocky and sandy, 4th rate.
	Timber, scattering pines on 80.00 chs.
	Mountainous land, 80.00 chs.

September 15, 1903.

	N. $79^{\circ} 45'$ W., on the 69th mile.
	Ascend through scattering pines, along top of ridge,
4.00	Enter scattering aspens.
30.00	Top of ascent, descend.
32.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $79^{\circ} 45'$ E. of cor.
	Pits impracticable.
	Thence S. $50^{\circ} 30'$ W.
1.00	Wagon road bears N.W. and S.E.
8.00	Set a pine post, 36x6x6 ins., 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

on S.E. faces, from which,

A pine, 6 ins. diam., bears N. 40° W., 88 lks. dist., marked U I R $\frac{1}{2}$ M B T.

An aspen, 6 ins. diam., bears S. 60° E., 106 lks. dist., marked P L $\frac{1}{2}$ M B. T.

No other suitable trees within limits, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, N. 50° 30' E. of cor. Pits impracticable.

30.00 Leave scattering aspens, bears N. and S.

38.00 Set a sandstone, 20x15x7 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, from which

A pine, 6 ins. diam., bears N. 26° W., 39 lks. dist., marked \angle U I R B T.

A pine, 6 ins. diam., bears S. 70° E., 24 lks. dist., marked \angle P L B T.

No other bearing trees within limits, therefore, I dig pits, 36x36x12 ins., N. 19° 00' W., and S. 19° E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2 $\frac{1}{2}$ ft. high, N. 50° 30' E. of cor.

Thence N. 88° 30' W.

10.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 69 mile cor., marked 69 M on E., U I R on N., and P L on S. faces, from which,

A pine, 12 ins. diam., bears N. 2° E. 128 lks. dist., marked U I R 69 M B T.

A pine, 14 ins. diam., bears N. 68° W., 25 lks. dist., marked U I R 69 M B T.

A pine, 14 ins. diam., bears S. 52° W., 39 lks. dist., marked P L 69 M B T.

A pine, 6 ins. diam., bears S. 82° E., 40 lks. dist., marked P L 69 M B T.

Land mountainous.

Soil sandy and clay, 4th rate.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Timber, scattering pines and aspens, 58.00 chs.
	Scattering pines on 4.00 chs.
	Mountainous land, 80.00 chs.

	September 16, 1903, at 9 h. 00m., a.m., l.m.t., I set off $39^{\circ} 53'$ N., on the lat. arc, $2^{\circ} 57'$ N. on the decl. arc, and determine a meridian with the solar, at the 69 mile cor.
	Thence I run
	N. $88^{\circ} 30'$ W., on the 70th mile.
	Ascend along top of divide, through scattering pines,
8.00	Top of ascent, descend.
9.70	Wagon road, bears N.W. and S.E.
17.80	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which, A pine, 10 ins. diam., bears N. 24° W., 42 lks. dist., marked \angle U I R B T. A pine, 10 ins. diam., bears S. 2° E. 48 lks. dist., marked \angle P L B T. No other bearing trees available, therefore, I dig pits, 36x36x12 ins., N. 7° W., and S. 7° E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $88^{\circ} 30'$ E. of cor.
	Thence, S. $74^{\circ} 30'$ W., ascend.
12.20	Top of ridge, bears N. and S., descend.
22.20	Set a pine post, 36x8x8 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces, from which, A pine, 10 ins. diam., bears N. 76° W., 105 lks. dist., marked $\frac{1}{2}$ M U I R B T. A pine, 10 ins. diam., bears S. 58° E., 46 lks. dist., marked $\frac{1}{2}$ M P L B T. No other bearing trees available, therefore I dig pits,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

36x36x12 ins., N. $25^{\circ} 30'$ W., and S. $25^{\circ} 30'$ E. of post,
4 ft. dist., and raise a mound of earth, 5 ft. base,
 $2\frac{1}{2}$ ft. high, N. $74^{\circ} 30'$ E. of cor.

25.20 Bottom of saddle, ascend.

62.20 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.
in the ground, for .70 mile cor., marked '70 M on E., U I R
on N., and P L on S. faces, from which,
A pine, 16 ins. diam., bears N. 40° E., 108 lks. dist.,
marked U I R 70 M B T.

An aspen, 8 ins. diam., bears N. 52° W., 50 lks. dist.,
marked U I R 70 M B T.

An aspen, 10 ins. diam., bears S. 34° W., 42 lks. dist.,
marked P L 70 M B T.

An aspen, 12 ins. diam., bears S. 52° E. 25 lks. dist.,
marked P L 70 M B T.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, scattering pines and aspens, on 80.00 chs.

Mountainous land, 80.00 chs.

September 16, 1903, at this cor, I set off $2^{\circ} 54'$ N.,
on the decl. arc, and at 11 h., 55 m., a.m., l.m.t.,
observe the sun on the meridian, the resulting lat. is
 $39^{\circ} 53'$ N.

S. $74^{\circ} 30'$ W. on the .71st mile.

Ascend along top of ridge, through scattering pines and
aspens.

17.00 Set a sandstone, 18x14x5 ins., 12 ins. in the ground, for
angle cor., marked \angle U I R on N., and P L on S. faces,
and raise a mound of stone, 3 ft. base, 2 ft. high, N.
 $74^{\circ} 30'$ E. of cor. Pits impracticable.

Thence N. $55^{\circ} 15'$ W., and descend.

23.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.
in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- on N.E., and P L on S.W. faces, from which
A pine, 14 ins. diam., bears N. 54° W., 85 lks. dist.,
marked U I R $\frac{1}{2}$ M B T.
- A pine, 10 ins. diam., bears S. 42° E., 235 lks. dist.,
marked P L $\frac{1}{2}$ M B T.
- No other trees within limits, therefore I dig pits,
36x36x12 ins., N. $34^{\circ} 45'$ E., and S. $34^{\circ} 45'$ W., of
post, 4 ft. dist., and raise a mound of earth, 5 ft. base
 $2\frac{1}{2}$ ft. high, S. $55^{\circ} 15'$ E. of cor.
- 29.00 Head of draw, drains S.W.
- 34.70 Set a sandstone, 20x16x6 ins., 15 ins. in the ground,
for angle cor., marked \angle U I R on N.E., and P L on S.E.
faces, and raise a mound of stone, 3 ft. base, 2 ft.
high, S. $55^{\circ} 15'$ E. of cor. Pits impracticable.
Thence S. $54^{\circ} 15'$ W.
- 10.30 Wagon road bears N.E. and S.W.
- 18.30 Wagon road bears N.W. and S.E.
- 23.30 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.
in the ground, for angle cor., marked \angle U I R on N.W.
and P L on S.E. faces, dig pits 36x36x12 ins., N. $0^{\circ} 30'$
W., and S. $0^{\circ} 30'$ E. of post, 4 ft. dist., and raise a
mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $54^{\circ} 15'$ E.
of cor.
Thence S. $86^{\circ} 45'$ W.
- 5.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.
in the ground, for 71 mile cor., marked 71 M on E., U I R
on N., and P L on S. faces, from which
A pine, 20 ins. diam., bears N. 16° W., 49 lks. dist.,
marked U I R 71 M B T.
- A pine, 12 ins. diam., bears N. 58° W., 110 lks. dist.,
marked U I R 71 M B T.
- A pine, 12 ins. diam., bears S. 36° E., 125 lks. dist.,
marked P L 71 M B T.
- A pine, 10 ins. diam., bears S. 68° E., 145 lks. dist.,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

marked, P L 71 M. B T.

Land mountainous.

Soil rocky and shale, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

S. $86^{\circ} 45'$ W., on the 72d mile.

Ascend through scattering pines, and aspens, along top of divide.

14.00 Wagon road bears N.E. and S.W.

17.00 Wagon road bears N.W. and S.E.

23.00 Wagon road bears N.E. and S.W.

39.00 Wagon road N.W. and S.E.

40.00 Set a pine post, 36x12x10 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces, from which,

A pine, 14 ins. diam., bears N. 54° W., 85 lks. Dist., marked U I R $\frac{1}{2}$ M B T.

A pine, 10 ins.-diam., bears S. 42° E., 235 lks.dist., marked P L $\frac{1}{2}$ M B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $86^{\circ} 45'$ E. of cor. Pits impracticable.

53.00 Bottom of saddle, ascend.

64.00 Set a pine post, 36x8x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which

A pine, 14 ins. diam., bears N. 38° E., 67 lks. dist., marked \angle U I R B T.

A pine, 8 ins. diam., bears S. 74° E., 125 lks. dist., marked \angle P L B T.

No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, N. $86^{\circ} 45'$ E. of cor. Pits impracticable.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- Thence S. $23^{\circ} 45'$ W.,
- 16.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 72 mile and angle cor., marked 72 M on N.E., \angle U I R on N.W., and P L on S.E. faces, from which
- A pine, 16 ins. diam., bears N. 52° E., 98 lks. dist., marked \angle U I R 72 M B T.
- A pine, 8 ins. diam., bears S. 28° W., 105 lks. dist., marked \angle P L 72 M B T.
- A pine, 12 ins. diam., bears S. 50° W., 139 lks. dist., marked \angle P L 72 M B T.
- A pine, 15 ins. diam., bears S. 16° W., 115 lks. dist., marked \angle P L 72 M B T.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- Timber scattering pine and aspen, 80.00 chs.
- Mountainous land, 80.00 chs.
- September 16, 1903.
-
- S. $70^{\circ} 30'$ W., on the 73d mile.
- Descend along top of ridge, through scattering pines and aspens,
- 15.00 Bottom of saddle in ridge, ascend.
- 40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on N.E., U I R on N.W., and P L on S.E. faces, from which, a pine 10 ins. diam., bears S. 50° W., 89 lks. dist., marked P L $\frac{1}{2}$ M B T.
- A pine, 12 ins. diam., bears N 22° E., 35 lks. Dist., marked U I R $\frac{1}{2}$ M B T.
- No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, N. $70^{\circ} 30'$ E. of cor. Pits impracticable.
- 45.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which,

A pine, 14 ins. diam., bears N. 12° W., 45 lks. Dist., marked \angle U I R B T.

A pine, 10 ins. diam., bears S. 72° W., 127 lks. dist., marked \angle P L B T.

No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $0^\circ 20'$ E., and S. $0^\circ 30'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $70^\circ 30'$ E. of cor.

Thence N. $67^\circ 45'$ W.

1.00 Top of ascent, descend.

5.00 Bottom of saddle, ascend.

19.00 Top of spur, projects S., descend.

27.00 Head of draw, drains S.W., ascend.

35.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 73 mile cor., marked 73 M on S.E., U I R on N.E., and P L on S.W. faces, from which, A pine, 16 ins. diam., bears N. 52° E., 98 lks. dist., marked U I R 73 M B T.

A pine, 8 ins. diam., bears N. 28° W., 100 lks. dist., marked U I R 73 M B T.

A pine, 12 ins. diam., bears S. 50° W., 139 lks. dist., marked P L 73 M B T.

A pine, 14 ins. diam., bears S. 16° W., 115 lks. dist., marked P L 73 M B T.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land on 80.00 chs.

September 17, 1903, at 9 h. 00 m., a.m., l.m.t., I set off $39^\circ 53'$ N. on the lat. arc, $2^\circ 34'$ N. on the decl. arc, and determine a meridian with the solar at the 73d

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

mile cor.

Thence I run

N. 67° 45' W., on the 74th mile.

Ascend along top of ridge, through scattering pines and aspens.

3.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P.L. on S.E. faces, from which,

A pine, 10 ins. diam., bears N. 70° W., 74 lks. dist., marked \angle -U I R B T.

A pine, 20 ins. diam., bears S. 46° W., 60 lks. dist., marked \angle P L B T.

No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. 67° 45' E. of cor., Pits impracticable.

Thence S. 69° W.

19.00 Top of ascent, descend.

29.00 Bottom of saddle, ascend.

37.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 69° E. of cor. Pits impracticable.

41.00 Top of spur, projects S. Descend.

49.00 Head of draw, drains S., Ascend.

57.00 Top of spur, projects S., Descend.

77.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 74 mile and angle cor., marked 74 M on N.E., \angle U I R on N.W., and P L on S.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 69° E. of cor. Pits impracticable.

Land mountainous.

Soil rocky, and stony, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

September 17, 1903, at this cor. I set off $2^{\circ} 31' N.$, on the decl. arc, and at 11 h.55 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $39^{\circ} 54' N.$

N. $63^{\circ} W.$, on the 75th mile.

Descend along top of ridge, through scattering pines and aspens.

20.00 Head of draw, drains S.W., ascend.

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2} M$ on S.E., $\angle U I R$ on N.E., and P L on S.W. faces; dig pits 36x36x12 ins., N. and S. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $63^{\circ} E.$ of cor.

Thence S. $63^{\circ} 45' W.$

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 75 mile and angle cor., marked 75 M on N.E., $\angle U I R$ on N.W., and P L on S.E. faces, from which,

A pine, 8 ins. diam., bears N. $44^{\circ} E.$, 58 lks. dist., marked $\angle U I R 75 M B T.$

A pine, 10 ins. diam., bears N. $32^{\circ} E.$, 70 lks. dist., marked $\angle U I R 75 M B T.$

A pine, 14 ins. diam., bears S. $4^{\circ} W.$, 135 lks. dist., marked $\angle P L 75 M B T.$

A pine, 14 ins. diam., bears S. $78^{\circ} E.$ 74 lks. dist., marked $\angle P L 75 M B T.$

Land mountainous.

Soil shale and clay, 4th rate.

Timber, scattering pine and aspen, 80.00 chs.

Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- N. 74° W. on the 76th mile.
- Along top of ridge, through scattering pines.
- Set a pine post, 36x6x6 ins. with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. 16° E., and S. 16° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 74° E. of cor.
- Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.E. faces, from which, A pine, 10 ins. diam., bears N. 78° E., 225 lks. dist., marked \angle U I R B T.
- A pine, 12 ins. diam., bears S. 6° W., 192 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 74° E. of cor. Pits impracticable.
- Thence N. $58^{\circ} 45'$ W.
- Set a sandstone, 24x15x7 ins., 18 ins. in the ground, for 76 mile and angle cor., marked 76 M on S.E., \angle U I R on N.E., and P L on S.W. faces, from which; A pine, 10 ins. diam., bears N. 86° E., 264 lks. dist., marked \angle U I R 76 M B T.
- A pine, 8 ins. diam., bears N. 44° E., 190 lks. dist., marked \angle U I R 76 M B T.
- No other bearing trees available, therefore I dig pits 36x36x12 ins., N. 12° E., and S. 12° W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $58^{\circ} 45'$ E. of cor.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- Timber, scattering pines and aspens, .80.00 chs.
- Mountainous land, .80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

S. $82^{\circ} 30'$ W. on the 77th mile.

Along top of ridge, through scattering pine and aspen timber.

28.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N. and P L on S. faces, from which;

A pine, 8 ins. diam., bears N. 60° W., 115 lks. dist., marked \angle U I R B T.

A pine, 10 ins. diam., bears S. 46° W., 198 lks. dist., marked \angle P L B T.

No other bearing trees available, therefore, I dig pits, 36x36x12 ins., N. $26^{\circ} 45'$ W., and S. $26. 45'$ E., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $82^{\circ} 30'$ E. of cor.

Thence S. 44° W.

12.00 Set a pine post, 36x4x4 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ N on N.E., \angle U I R on N.W., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 44° E. of cor. Pits impracticable.

Thence N. $61^{\circ} 30'$ W.

4.00 Enter dense pine timber, bears N. and S.

8.00 Leave dense pine timber, bears N. and S.

32.50 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E. face, P L on W. face; dig pits, 36x36x12 ins., N. $59^{\circ} 00'$ E., and S. $59^{\circ} 00'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft high, S. $61. 30'$ E. of cor. Thence N. $0^{\circ} 15'$ W.

7.50 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 77 mile cor., marked 77 N on S.E., U I R on N.E., and P L on S.W. faces, from which. An aspen, 8 ins. diam., bears S. 38° E., 84 lks. dist..

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

marked U I R 77 M B T.

An aspen, 8 ins. diam., bears N. 86° E., 46 lks. dist.,
marked U I R 77 M B T.

An aspen, 10 ins. diam., bears N. 76° W., 81 lks. dist.,
marked P L 77 M B T.

An aspen, 8 ins. diam., bears S. 80° W., 130 lks. dist.,
marked P L 77 M B T.

Land mountainous.

Soil stony and shale, 3d rate.

Timber, dense pines, 4.00 chs., scattering pines and
aspens, 76.00 chs.

Mountainous land, 80.00 chs.

September 18, 1903, at 9 h. 00 m., a.m., l.m.t., I set
off $39^{\circ} 54'$ N. on the lat. arc, $2^{\circ} 11'$ N. on the decl.
arc, and determine a meridian with the solar at the 77
mile cor., thence I run,

N. $0^{\circ} 15'$ W., on the 78th mile.

Ascend through scattering pine timber, along top of ridge.

3.00 Top of Indian, Head Peak, descend.

8.20 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.
in the ground, for angle cor., marked \angle U I R on W., and P
L on E. faces; from which,

An aspen, 8 ins. diam., bears N. 30° W., 136 lks. dist.,
marked \angle U I R B T.

An aspen, 12 ins. diam., bears N. 76° W., 207 lks. dist.,
marked \angle P L B T.

No other bearing trees available, therefore, I dig pits,
36x36x12 ins. N. $65^{\circ} 45'$ E., and S. $65^{\circ} 45'$ W. of post,
4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft
high, S. $0^{\circ} 15'$ E. of cor.

Thence N. $48^{\circ} 15'$ W.

2.00 Enter dense pine and aspen timber, bears N. and S.

18.80 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, from which;

A pine, 11 ins. diam., bears N. 50° W., 39 lks. dist., marked \angle U I R B T.

A pine, 14 ins. diam. bears S. 34° E. 118 lks. dist., marked \angle P L B T.

No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $48^\circ 15'$ E. of cor. Pits impracticable.

Thence S. $81^\circ 45'$ W.

13.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on E., \angle U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $7^\circ 40'$ W., and S. $7^\circ 40'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $81^\circ 45'$ E. of cor.

Thence S. 83° W.

40.00 Set a pine post, 36x6x6 ins., 24 ins. in the ground, for $\frac{3}{4}$ mile and angle cor., marked 78 M on E., \angle U I R on N., and P L on S. faces, from which;

A pine, 12 ins. diam., bears N. 32° W., 28 lks. dist., marked \angle U I R 78 M B T.

A pine, 16 ins. diam., bears N. 77° W., 34 lks. dist., marked \angle U I R 78 M B T.

A pine, 10 ins. diam., bears S. 56° W., 38 lks. dist., marked \angle P L 78 M B T.

A pine, 15 ins. diam., bears S. 12° W., 15 lks. dist., marked \angle P L 78 M B T.

Land mountainous.

Soil rocky and sandy, 4th rate.

Timber, dense pines on 69.80 chs., scattering pines and aspens on 10.20 chs.

Mountainous land, 80.00 chs.

September 18, 1903, at this cor., I set off $2^\circ 08'$ N. on the decl. arc, and at 11 h. 54 m., a.m., l.m.t.,

SOUTH AND WEST BOUNDARY, UNTAR INDIAN RESERVATION

CHAINS

observe the sun on the meridian, the resulting lat. is
39° 54' N.

N. 78° W. on the 79th mile.

Descend along top of ridge, through dense pine timber.

- 8.00 Leave dense pine timber, enter scattering pines.
Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked ✓ U I R on N.E., and P L on S.W. faces, from which;
A pine, 10 ins. diam., bears N. 88° E., 178 lks. dist., marked ✓ U I R B T.
A pine, 14 ins. diam., bears S. 12° E., 104 lks. dist., marked ✓ P L B T.
No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. 78° E. of cor.
Thence N. 6° 00' W.,
23.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked ✓ U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. 84° E., and S. 84° W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2½ ft. high, S. 6° E. of cor.
Thence N. 33° 45' W.
12.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.E., ✓ U I R on N.E., and P L on S.W. faces, from which;
A pine, 14 ins. diam., bears S. 70° E., 118 lks. dist., marked ✓ U I R $\frac{1}{2}$ M B T.
A pine, 14 ins. diam., bears S. 12° W., 102 lks. dist., marked ✓ P L $\frac{1}{2}$ M B T.
No other bearing trees available, therefore I dig pits 36x36x12 ins., N. 80° 10' E., and S. 80° 10' W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2½ ft. high, S. 33° 45' E. of cor.
Thence N. 25° W.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 12.80 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on S.W. faces; dig pits 36x36x12 ins., N. 32° 50' E., and S. 32° 50' W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high S. 26° E. of cor.
- Thence N. $88^{\circ} 15'$ W.
- 12.00 Head of draw, drains S.W.
- 27.20 Set a pine post, 36x6x6 ins., 24 ins. in the ground, for 79 mile cor., marked 79 M on E., U I R on N., and P L on S. faces, from which;
- A pine, 10 ins. diam., bears N. 6° W., 194 lks. dist., marked U I R 79 M B T.
- A pine, 10 ins. diam., bears N. 18° W., 210 lks., dist., marked U I R 79 M B T.
- A pine, 12 ins. diam., bears S. 60° W., 265 lks. dist., marked P L 79 M B T.
- A pine, 8 ins. diam., bears S. 10° E., 301 lks. dist., marked P L 79 M B T.
- Land mountainous.
- Soil sandy and loam, 2d rate.
- Timber, dense pine, 5.00 chs., scattering pines, 75.00 chs.
- Mountainous land, 80.00 chs.
-
- N. $88^{\circ} 15'$ W. on the 80th mile.
- Descend along top of ridge, through scattering pine timber.
- 10.00 Bottom of saddle in ridge, ascend.
- 33.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; from which,
- A pine, 8 ins. diam., bears N. 78° E., 93 lks. dist., marked \angle U I R B T.
- A pine, 14 ins. diam., bears S. 60° E., 115 lks. dist., marked \angle P L B T.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- No other bearing trees available, therefore I dig pits; 36x36x12 ins., N. $28^{\circ} 30'$ E., and S. $28^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $88^{\circ} 15'$ E. of cor..
Thence N. $34^{\circ} 45'$ W.
- 7.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.E., \angle U I R on N.E., and P L on S.W. faces; from which A pine, 14 ins. diam., bears S. 12° W., 102 lks. dist., marked \angle P L $\frac{1}{2}$ M B T.
A pine, 14 ins. diam., bears S. 70° E., 118 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T.
No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $34^{\circ} 30'$ E., and S. $34^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $34^{\circ} 45'$ E. of cor..
Thence N. $76^{\circ} 15'$ W.
- 4.00 Spur projects S.W., descend.
- 10.00 Head of draw, drains S., ascend.
- 40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 80 mile cor., marked 80 M on E., U I on N., and P L on S. faces, from which A pine, 10 ins. diam., bears N. 6° W., 194 lks. dist., marked U I R 80 M B T.
A pine, 10 ins. diam., bears N. 18° W., 210 lks. dist., marked U I R 80 M B T.
A pine, 12 ins. diam., bears S. 65° W., 265 lks. dist., marked P L 80 M B T.
A pine, 18 ins. diam., bears S. 20° E., 320 lks. dist., marked P L 80 M B T.
Land mountainous.
Soil sandy and clay, 3d rate.
Timber, scattering pine, 80.00 chs.
Mountainous land, 80.00 chs.

September 18, 1903.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

N. $76^{\circ} 15'$ W. on the 81st mile.

Ascend along top of ridge, through scattering pine timber.

- 4.40 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which;
- A pine, 10 ins. diam., bears N. 6° W., 82 lks. dist., marked \angle U I R B T.
- A pine, 10 ins. diam., bears S. 44° W., 150 lks. dist., marked \angle P L B T.
- No other suitable bearing trees available, therefore I dig pits, 36x36x12 ins., N. 28° E., and S. 28° W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $76^{\circ} 15'$ E. of cor.

Thence N. $47^{\circ} 45'$ W.

10.00 Top of ascent, descend.

25.00 Bottom of saddle in ridge, ascend.

- 35.60 Set a pine post, 36x6x6 ins., with a marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.E., \angle U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $20^{\circ} 30'$ E., and S. $20^{\circ} 30'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $47^{\circ} 45'$ E. of cor.

Thence S. $88^{\circ} 45'$ W.

4.00 Spur projects S.W.

20.00 Head of draw, drains N.E.

- 40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 81st mile cor., marked 81 M on E., U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. $10^{\circ} 15'$ W., and S. $10^{\circ} 15'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $88^{\circ} 45'$ E. of cor.

Land mountainous.

Soil rocky and sandy loam, 3d rate.

Timber, scattering pine, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	Mountainous land, 80.00 chs.
	September 19, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $39^{\circ} 54'$ N. on the lat. arc; $1^{\circ} 47'$ N. on the decl. arc, and determine a meridian with the solar at the 81 mile cor.
	Thence I run
	S. $88^{\circ} 45'$ W. on the 82d mile.
	Descend over mountainous land, along top of ridge, through scattering pine timber.
20.00	Head of draw, drains N.E., ascend.
25.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $31^{\circ} 50'$ E., and S. $31^{\circ} 50'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $88^{\circ} 45'$ E. of cor.
	Thence N. $27^{\circ} 30'$ W.
15.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.E., \angle U I R on N.E., and P L on S.W. faces; dig pits 36x36x12 ins., N. $68^{\circ} 30'$ E., and S. $68^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $27^{\circ} 30'$ E. of cor.
	Thence N. $15^{\circ} 30'$ W.
40.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 82d mile cor., marked 82 M on S., U I R on E., and P L on W. faces; dig pits 36x36x12 ins., N. $74^{\circ} 30'$ E., and S. $74^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $15^{\circ} 30'$ E. of cor.
	Land mountainous.
	Soil sandy loam and clay, 3d rate.
	Timber, scattering pine, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Mountainous land, 80.00 chs.

September 19, 1903, at this cor., I set off $1^{\circ} 44'$ N. on the decl. arc, and at 11 h. 56 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $39^{\circ} 55'$ N.

N. $15^{\circ} 30'$ W., on the 83d mile.

Ascend along top of ridge, through scattering pine timber.

10.00 Head of draw, drains N.E., ascend. Leave scattering pine.

30.00 Top of spur, projects N.E., descend.

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits 36x36x12 ins., N. $74^{\circ} 30'$ E., and S. $74^{\circ} 30'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $15^{\circ} 30'$ E. of cor.

50.00 Enter scattering aspens, bears N. and S.

55.00 Bottom of saddle, ascend.

70.00 Set a sandstone, 20x16x6 ins., 15 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $15^{\circ} 30'$ E. of cor.

Pits impracticable.

Thence N. $15^{\circ} 15'$ E.

10.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 83d mile and angle cor., marked 83 M on S., \angle U I R on E., and P L on W. faces; dig pits 36x36x12 ins., S. $86^{\circ} 30'$ E., and N. $86^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $15^{\circ} 15'$ W. of cor.

Land mountainous.

Soil sandy loam, 3d rate.

Timber, scattering pines, 10.00 chs., scattering pines and aspens, 70.00 chs.

Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	N. $8^{\circ} 30'$ W., on the 84th mile.
	Ascend along top of ridge, over mountainous land, through scattering pines and aspens.
20.00	Begin abrupt ascent.
40.00	Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits 36x36x12 ins., N. $81^{\circ} 30'$ E., and S. $81^{\circ} 30'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $8^{\circ} 30'$ E. of cor.
50.00	Top of knob, descend.
60.00	Bottom of saddle, ascend.
73.00	Top of ascent, descend.
80.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 84 mile and angle cor., marked 84 M on S., U I R on E., and P L on W. faces, and dig pits, 36x36x12 ins., S. $77^{\circ} 15'$ E., and N. $77^{\circ} 15'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $8^{\circ} 30'$ E. of cor.
	Land mountainous.
	Soil rocky and clay, 4th rate.
	Timber, scattering pines and aspens, 80.00 chs.
	Mountainous land, 80.00 chs.

September 19, 1903.

	N. $34^{\circ} 0'$ E. on the 85th mile.
	Ascend along top of ridge, through scattering pine timber.
10.00	Top of ascent, descend.
22.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked U I R on the N.E. and P L on S.W. faces; dig pits, 36x36x12 ins., N. $84^{\circ} 15'$ E., and S. $84^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $34^{\circ} 0'$ E. of cor.

SOUTH AND WEST BOUNDARY, QUINTAH INDIAN RESERVATION

CHAINS

Thence N. $45^{\circ} 15'$ W.

18.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces; dig pits 36x36x12 ins. N. $44^{\circ} 45'$ E., and S. $44^{\circ} 45'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $45^{\circ} 15'$ E. of cor.

22.00 Bottom of saddle in ridge, ascend.

48.00 Head of draw, drains N.E.

58.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 85 mile and angle cor., marked 85 M on S.E., \angle U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $61^{\circ} 30'$ E., and S. $61^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $45^{\circ} 15'$ E. of cor.

Land mountainous.

Soil sandy loam, 3d rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

September 20, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $39^{\circ} 57'$ N. on the lat. arc, $1^{\circ} 24'$ N. on the decl. arc, and determine a meridian with the solar at the 85 mile cor.

Thence I run

N. $11^{\circ} 45'$ W. on the 86th mile.

Ascend over mountainous land, along top of ridge, through scattering pines and aspens.

5.00 Head of draw, drains E.

12.00 Top of spur, projects E., descend.

27.00 Head of draw, drains E., ascend.

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N.

SOUTH AND WEST BOUNDARY, UNTAR INDIAN RESERVATION

CHAINS

78° 15' E., and S. 78° 15' W. of post, 4 ft. dist., and raise a mound of earth, 3 ft. base, 2 $\frac{1}{2}$ ft. high, S. 11° 45' E. of cor.

- 80.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 86 mile cor., marked 86 M on S., U I R on E., and P L on N. faces; dig pits, 36x36x12 ins., N. 78° 15' E., and S. 78° 15' W. of post, 4 ft. dist., and raise a mound of earth, 3 ft. base, 2 $\frac{1}{2}$ ft. high, S. 11° 15' E. of cor.

Land mountainous.

Soil rocky and clay, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

September 20, 1903, at this cor. at 11 h., 54 m., a.m., l.m.t., I set off 1° 20' N. on the decl. arc, and observe the sun on the meridian, the resulting lat. is 39° 58' N.

N. 11° 45' W. on the 87th mile.

Ascend along top of ridge, through scattering pines and aspens.

10.00 Top of ascent, descend.

35.00 Head of draw, drains E., ascend.

40.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on N. faces; dig pits 36x36x12 ins., N. 78° 15' E., and S. 78° 15' W. of stone, 4 ft. dist., and raise a mound of earth, 3 ft. base, 2 $\frac{1}{2}$ ft. high, S. 11° 45' E. of cor.

75.00 Top of ascent, descend.

85.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 87 mile and angle cor., marked 87 M on S., U I R on E., and P L on N. faces; dig pits, 36x36x12 ins., N. 88° 30' E., and S. 88° 30' S. of post, 4 ft. dist., and raise a mound of earth, 3 ft. base, 2 $\frac{1}{2}$

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

ft. high, S. $11^{\circ} 45'$ E. of cor.

Land mountainous.

Soil sandy loam, 2d rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

N. $4^{\circ} 30'$ E. on the 88th mile.

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{3}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on N. faces, from which;

A pine, 6 ins. diam., bears N. 22° E., 94 lks. dist., marked U I R $\frac{1}{2}$ M B T.

A pine, 8 ins. diam., bears N. 30° W., 132 lks. dist., marked P L $\frac{1}{2}$ M B T.

No other bearing tress available, therefore I dig pits, 36x36x12 ins., S. $85^{\circ} 30'$ E., and N. $85^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $4^{\circ} 30'$ W. of cor.

55.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. $68^{\circ} 45'$ E., and S. $68^{\circ} 45'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $4^{\circ} 30'$ W. of cor.

Thence N. $46^{\circ} 45'$ W.

25.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 88 mile and angle cor., marked 88 M on S.E., \angle U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $59^{\circ} 15'$ E., and S. $59^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $46^{\circ} 45'$ E. of cor.

Land mountainous.

Soil rocky and sandy, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

September 20, 1903, at the 88 mile cor., I examine the adjustments of the transit, and correct the level and collimation errors, then to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours, with a meridian determined by observation on Polaris, I proceed as follows:

At 4 h. 00 m., p.m., l.m.t., I set off $1^{\circ} 18'$ N. on decl. arc, $40^{\circ} 00'$ N. on the lat. arc, and determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of the cor. At 7 h., 35 m., p.m., l.m.t., I observe Polaris at Eastern elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

September 20, 1903.

September 21, 1903, at 8 h., 00 m., a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 35'$ to the west and mark the meridian thus determined by cutting a small groove in the stone set September 20, on which the meridian falls 0.3 ins. east of the mark determined by the solar. At 8 h., 30 m., a.m., l.m.t., I set off $40^{\circ} 00'$ N. on the lat. arc, $1^{\circ} 02'$ N. on the decl. arc, and mark a point in the meridian thus determined with the solar by a cross on the stone already set 5.00 chs. N. of my station. This point falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0^{\circ} 16'$ west, and $0^{\circ} 16'$ east of the meridian established by the polaris observation, therefore I conclude that the adjustment of the transit is satisfactory. The magnetic bearing of the true meridian at 9 h. 00 m.,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

a.m., is N. $16^{\circ} 10'$ W., the angle thus determined gives the mag. decl. $16^{\circ} 10'$ E.

Thence I run

N. $14^{\circ} 45'$ W. on the 89th mile.

Ascend along top of ridge, through scattering pine and aspen timber, over mountainous land.

20.00 Top of spur, projects S.W., ascend.

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces, from which;

A pine, 8 ins. diam., bears S. 48° W. 128 lks. dist., marked P L $\frac{1}{2}$ M B T.

No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $75^{\circ} 15'$ E., and S. $75^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high S. $14^{\circ} 15'$ E. of cor.

58.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E. and P L on W. faces; dig pits, 36x36x12 ins., N. $58^{\circ} 15'$ E., and S. $58^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $14^{\circ} 45'$ E. of cor.

Thence N. 49° W.

22.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 89 mile and angle cor., marked 89 M on S.E., \angle U I R on N.E., and P L on S.W. faces; dig pits 36x36x12 ins., N. $59^{\circ} 30'$ E., and S. $59^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 49° E. of cor.,

Land mountainous.

Soil sandy and clay, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINES

September 21, 1903, at 10 h. 00 m., a.m., l.m.t., I set off $40^{\circ} 00'$ N. on the lat. arc, $1^{\circ} 00'$ N. on the decl. arc, and determine a meridian with the solar at the 89 mile cor.

Thence I run

N. $11^{\circ} 45'$ W. on the 90th mile.

Ascend along top of ridge, through scattering pines and aspens.

15.00 Spur projects W., descend.

Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which

A pine, 10 ins. diam., bears S. 62° E., 137 lks. dist., marked \angle U I R B T.

No other bearing trees available. therefore I dig pits, 36x36x12 ins., N. $89^{\circ} 15'$ E., and S. $89^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $11^{\circ} 45'$ E. of cor.

Thence N. $10^{\circ} 15'$ E.

15.10 Head of draw, drains W.

25.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on S., U I R on E., and P L on W. faces, and dig pits, 36x36x12 ins., S. $79^{\circ} 45'$ E., and N. $79^{\circ} 45'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $10^{\circ} 15'$ W. of cor.

50.00 Top of knoll, descend.

65.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 90 mile cor., marked 90 M on the S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., S. $79^{\circ} 45'$ E., and N. $79^{\circ} 45'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high S. $10^{\circ} 15'$ W. of cor.

Land mountainous.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- Soil sandy and clay, 4th rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.
- September 21, 1903, at this cor., I set off $0^{\circ} 57'$ N. on the decl arc, and at 12 h. 00 m., M., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 01'$ N.
-
- N. $10^{\circ} 15'$ E. on the 91st mile.
- Descend along top of ridge, through scattering pines and aspens.
- 2.00 Bottom of saddle in ridge, ascend.
- 16.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;
- A pine, 6 ins. diam., bears S. 68° E., 73 lks. dist., marked \angle U I R B T.
- A pine, 6 ins. diam., bears S. 48° W. 10 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $88^{\circ} 08'$ W., and S. $88^{\circ} 08'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $10^{\circ} 15'$ W. of cor.
- Thence N. $6^{\circ} 30'$ W.
- 24.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on N. faces; dig pits, 36x36x12 ins., N. $83^{\circ} 30'$ E., and S. $83^{\circ} 30'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $6^{\circ} 30'$ E. of cor.
- 41.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces; dig pits 36x36x12 ins., N. $67^{\circ} 50'$ E., and S. $67^{\circ} 50'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $6^{\circ} 30'$ E. of cor.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Thence N. $37^{\circ} 45'$ W.
23.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 91 mile cor., marked 91 M on S.E., U.I.R on N.E., and P.L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $37^{\circ} 45'$ E. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky and sandy, 4th rate.
	Timber, scattering pines and aspens, 80.00 chs.
	Mountainous land, 80.00 chs.

	N. $37^{\circ} 45'$ W. on the 92d mile.
	Descend over rough mountainous land, through scattering pine and aspen timber, along top of ridge.
2.00	Bottom of saddle in ridge, ascend.
4.50	Center of circular sheep corral, 100 lks. diam.
40.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E. U.I.R on N.E., and P.L on S.W. faces; dig pits, 36x36x12 ins., N. $52^{\circ} 15'$ E., and S. $52^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $37^{\circ} 45'$ E. of cor.
60.50	Top of divide between Big and Little Strawberry Creeks. Set a sandstone, 20x18x6 ins., 15 ins. in the ground, for angle cor., marked \angle U.I.R on N.E., and P.L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $37^{\circ} 45'$ E. of cor. Pits impracticable.
	Thence N. $81^{\circ} 45'$ W.
19.50	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 92 mile cor., marked 92 M on E., U.I.R on N., and P.L on S. faces; dig pits, 36x36x12 ins., N. $8^{\circ} 45'$ E., and S. $8^{\circ} 45'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high,

SOUTH AND WEST BOUNDARY? UNTAH INDIAN RESERVATION

CHAINS

S. $81^{\circ} 45'$ E. of cor.

Land mountainous.

Soil sandy and slate, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

Sept. 21, 1903.

N. $81^{\circ} 45'$ W. on the 93d mile.

Descend over mountainous land, along top of ridge, through scattering pines and aspens.

8.00 Bottom of draw, drains N.E., ascend.

12.05 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W., faces; dig pits 36x36x12 ins., N. $33^{\circ} 45'$ E., and S. $33^{\circ} 45'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $81^{\circ} 45'$ E. of cor.

Thence N. 31° W.

2.00 Top of knoll, descend.

16.00 Bottom of saddle in ridge, ascend.

27.95 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces; dig pits 36x36x12 ins., N. 59° E., and S. 59° W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 31° E. of cor.

67.95 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 93 mile and angle cor., marked 93 M on S.E., \angle U I R on N.E., and P L on S.W. faces; dig pits 36x36x12 ins., N. $29^{\circ} 10'$ E., and S. $29^{\circ} 10'$ W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 31° E. of cor.

Land mountainous.

Soil sandy loam and clay, 3d rate.

Timber, scattering pines and aspens 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Mountainous land, 80.00 chs.

September 22, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 03'$ N. on the lat. arc, $0^{\circ} 38'$ N. on the decl. arc, and determine a meridian with the solar at the 93d mile cor.

Thence I run

S. $89^{\circ} 15'$ W., on the 94th mile.

Ascend along top of ridge, through scattering pines and aspens.

3.00 Bottom of descent, ascend.

26.00 Top of knoll, descend.

30.00 Bottom of saddle in ridge, ascend.

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. $0^{\circ} 45'$ W., and S. $0^{\circ} 45'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $89^{\circ} 15'$ E. of cor.

60.00 Top of spur, projects S., descend.

70.00 Head of draw, drains S., ascend.

80.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 94 mile and angle cor., marked 94 M on E., \angle U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. $14^{\circ} 20'$ W., and S. $14^{\circ} 20'$ E. of post, and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $89^{\circ} 15'$ E. of cor.

Land mountainous.

Soil sandy loam, 3d rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

September 22, 1903, at this cor., I set off $0^{\circ} 34'$ N. on the decl. arc, and at 12 h., 00 m., A.M., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 03'$ N.

SOUTH AND WEST BOUNDARY, WINTAH INDIAN RESERVATION

CHAINS

- S. 62° W., on the 95th mile.
 Ascend along top of ridge, through scattering pines and aspens.
- 28.00 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces; dig pits 36x36x12 ins., N. $47^{\circ} 45'$ W., and S. $47^{\circ} 45'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 62° E. of cor.
 Thence S. $22^{\circ} 30'$ W.
- 12.00 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M. on N.E., \angle U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins., N. $56^{\circ} 08'$ W., and S. $56^{\circ} 08'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $22^{\circ} 30'$ E. of cor.
 Thence S. $45^{\circ} 15'$ W.
- 24.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.W. faces; dig pits, 36x36x12 ins. N. $54^{\circ} 30'$ W., and S. $54^{\circ} 30'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $45^{\circ} 15'$ E. of cor.
 S. $25^{\circ} 45'$ W.
- 6.00 Top of spur, projects N.W., descend.
- 16.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 95 mile cor., marked 95 M on N.E., U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins. N. $64^{\circ} 15'$ W., and S. $64^{\circ} 15'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $25^{\circ} 45'$ E. of cor.
 Land mountainous.
 Soil sandy loam, 3d rate.
 Timber, scattering pines and aspens, 80.00 chs.
 Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

S. 25° 45' W. on the 96th mile.

Descend along top of ridge, through scattering pines and aspens.

2.00 Head of draw, drains N.W.

34.00 Head of draw, drains S.W.

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins., N. 64° 15' W., and S. 64° 15' E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high N. 25° 45' E. of cor.

70.00 Head of draw, drains N. ascend.

79.00 Wagon road, bears N.W. and S.E.

80.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 96 mile and angle cor., marked 96 M on N.E., \angle U I R on N.W., and P L on S.E. faces; dig pits 36x36x12 ins., N. 28° W., and S. 28° E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 25° 45' E. of cor.

Land mountainous.

Soil rocky and sandy, 3d rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

September 22, 1903.

N. 81° 45' W. on the 97th mile.

Ascend along top of ridge, through scattering pines and aspens.

13.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. 13° 30' E., and S. 13° 30' W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 81° 45' E. of cor.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Thence S. $71^{\circ} 30'$ W.

2.00 Top of ascent, descend.

9.00 Bottom of saddle in ridge, ascend.

27.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on E., \angle U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $18^{\circ} 30'$ E., and S. $18^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $71^{\circ} 30'$ E. of cor.

Thence N. $65^{\circ} 45'$ W.

34.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. $15^{\circ} 45'$ W., and S. $15^{\circ} 45'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $65^{\circ} 45'$ E. of cor.

Thence S. $40^{\circ} 15'$ W.

6.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 97 mile cor., marked 97 M on N.E., U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins., N. $49^{\circ} 45'$ W., and S. $49^{\circ} 45'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $40^{\circ} 15'$ E. of cor.

Land mountainous.

Soil sandy and clay, 4 th rate.

Timber; scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

September 23, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 02'$ N. on the lat. arc, $0^{\circ} 14'$ N. on the decl. arc, and determine a meridian with the solar, at the 97th mile cor.

Thence I run

S. $40^{\circ} 15'$ W. on the 98th mile.

Descend along top of ridge, through scattering pines and aspens.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 15.00 Bottom of saddle in ridge, ascend.
- 35.00 Top of spur, projects N.W., descend.
- 40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on N.E., \angle U I R on N.W., and P L on S.E. faces, from which; A pine, 10 ins. diam., bears S. 30° E., 79 lks. dist., marked \angle P L $\frac{1}{2}$ M.B.T.
- No other bearing trees available, therefore I dig pits 36x36x12 ins., N. 43° 15' W., and S. 43° 15' E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 40° 15' E. of cor.
- Thence S. 53° 15' W.
- 24.00 Head of draw, drains N., ascend.
- 40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 98 mile and angle cor., marked 98 M on N.E., \angle U I R on N.W., and P L on S.E. faces, from which An aspen, 10 ins. diam., bears N. 26° W., 52 lks. dist., marked \angle U I R 98 M B T.
- An aspen, 10 ins. diam., bears N. 89° W., 46 lks. dist., marked \angle P L 98 M B T.
- An aspen, 11 ins. diam., bears S. 58° W., 43 lks. dist., marked \angle P L 98 M B T.
- An aspen, 8 ins. diam., bears S. 22° E., 31 lks. dist., marked \angle P L 98 M B T.
- Land mountainous.
- Soil stony and sandy, 4th rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.
- September 23, 1903, at this cor., I set off 0° 11' N. on the decl. arc, and at 1¹ h. 58 m. 2.7 s.m., I.m.t., observe the sun on the meridian, the resulting lat. is 40° 01' N. or within 1' of the proper lat.
-
- N. 88° 45' W. on the 99th mile.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- Ascend along top of ridge, through scattering pine and aspen timber.
- 9.00 Top of spur, projects N., descend.
Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which;
An aspen, 10 ins. diam., bears N. 14° W., 92 lks. dist., marked \angle U I R B T.
An aspen, 8 ins. diam., bears S. 80° E., 3 lks. dist., marked \angle P L B T.
No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, N. $88^\circ 30'$ E. of cor. Pits impracticable.
Thence
S. $42^\circ 30'$ W.
- 17.00 Bottom of saddle in ridge, ascend.
- 25.00 Top of spur, projects S., descend abruptly.
- 31.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.W., and P L on S.E. faces; dig pits 36x36x12 ins., N. $47^\circ 30'$ W., and S. $47^\circ 30'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $42^\circ 30'$ E. of cor.
- 42.00 Top of spur, projects S.E., descend.
- 42.90 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, from which;
An aspen, 6 ins. diam., bears N. 34° W., 16 lks. dist., marked \angle U I R B T.
A pine, 8 ins., diam., bears S. 10° E., 27 lks. dist., marked \angle P L B T.
No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $27^\circ 00'$ W., and S. $27^\circ 00'$ E. of cor., 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $42^\circ 30'$ E. of cor.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- Thence S. $83^{\circ} 30'$ W.
 8.00 Bottom of saddle in ridge.
 22.10 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. $56^{\circ} 15'$ W., and S. $56^{\circ} 15'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $83^{\circ} 30'$ E. of cor.
- Thence S. $0^{\circ} 15'$ E.
- 6.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 99 mile and angle cor., marked 99 M on N., \angle U I R on W., and P L on E. faces; dig pits 36x36x12 ins., S. $77^{\circ} 45'$ W., and N. $77^{\circ} 45'$ E. of post, 4 ft. dist., and raise a mound of earth, 4 ft. base, $2\frac{1}{2}$ ft. high, N. $0^{\circ} 15'$ W. of cor.
- Land mountainous.
- Soil sandy loam, 2d rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.
-
- S. $24^{\circ} 15'$ E. on the 100th mile.
- Descend along top of ridge, through scattering pines and aspens.
- 8.00 Bottom of saddle in ridge, ascend.
- 13.00 Top of spur, projects S.E.
- Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on W., and P L on E. faces, from which;
- An aspen, 10 ins. diam., bears S. 58° W., 79 lks. dist., marked \angle U I R B T.
- An aspen, 8 ins. diam., bears S. 26° E., 37 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore Idig pits, 36x36x12 ins., N. $85^{\circ} 07'$ W., and S. $85^{\circ} 07'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$

SOUTH AND WEST BOUNDARY, UINTAH INDIAN RESERVATION

CHAINS

- ft. high, N. $24^{\circ} 15'$ W. of cor.
 Thence S. 34° W.
- 10.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, from which;
 A pine, 10 ins. diam., bears S. 44° W., 184 lks. dist., marked \angle P L B T.
 A pine, 10 ins. diam., bears N. 70° W., 212 lks. dist., marked \angle U I R B T.
 No other bearing trees available, therefore, I dig pits, 36x36x12 ins., N. $34^{\circ} 30'$ W., and S. $34^{\circ} 30'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 34° E. of cor.
 Thence S. 77° W.
- 7.00 Bottom of saddle in ridge, ascend.
- 17.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{8}$ mile cor., marked $\frac{1}{8}$ M on E., U I R on N., and P L on S. faces, from which;
 An aspen, 10 ins. diam., bears N. 46° W., 34 lks. dist., marked U I R $\frac{1}{8}$ M B T.
 An aspen, 8 ins. diam., bears S. 80° E., 8 lks. dist., marked P L $\frac{1}{8}$ M B T.
 No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. 13° W., and S. 13° E. of cor., 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 77° E. of cor.
- 57.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 100 mile and angle cor., marked 100 M on E., \angle U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 77° E. of cor.
 Pits impracticable.
 Land mountainous.
 Soil, sandy loam, 2d rate.
 Timber, scattering pines and aspens, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Mountainous land, 80.00 chs.

September 23, 1903.

S. $61^{\circ} 45'$ W., on the 101st mile.

Descend along top of ridge, through scattering pines and aspens.

11.00 Head of draw, drains N., ascend.

29.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces, from which:An aspen, 10 ins. diam., bears N. 26° W., 6 lks. dist., marked \angle U I R B T.No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $45^{\circ} 15'$ W., and S. $45^{\circ} 15'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $61^{\circ} 45'$ E. of cor.Thence S. $27^{\circ} 45'$ W.11.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N., U I R on W., and P L on E. faces; dig pits 36x36x12 ins., N. $62^{\circ} 15'$ W., and S. $62^{\circ} 15'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $27^{\circ} 45'$ E. of cor.29.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.W., and P L on S.E. faces; dig pits 36x36x12 ins., N. $24^{\circ} 45'$ W., and S. $24^{\circ} 45'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $27^{\circ} 45'$ E. of cor.Thence N. 77° W.22.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 101 mile and angle cor., marked 101 M on E., \angle U I R on N., and P L on S. faces; dig pits, 36x36x12 ins., N. $17^{\circ} 30'$ W., and S. $17^{\circ} 30'$ E. of post,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

4 ft. dist., and raise a mound of earth, 5 ft. base,
 $2\frac{1}{2}$ ft. high, S. 77° E. of cor.

Land mountainous.

Soil sandy loam, 3d rate.

Timber, scattering pine and aspen, 80.00 chs.

Mountainous land, 80.00 chs.

September 24, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 00' N$ on the lat. arc; $0^{\circ} 9' S.$ on the decl. arc, and determine a meridian with the solar at the 101 mile cor.

Thence I run

S. 42° W. on the 102d mile.

Descend gradually along top of ridge, through scattering pines and aspens.

27.70 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked $\angle U I R$ on N.W., and P L on S.E. faces, from which;

An aspen, 6 ins. diam., bears N. 14° E., 203 lks. dist., marked $\angle U I R B T$.

An aspen, 6 ins. diam., bears N. 30° W., 4 lks. dist., marked $\angle U I R B T$.

No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. 32° W., and S. 32° E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 42° E. of cor.

Thence S. 74° W.

11.30 Head of draw, drains S.W., ascend.

12.30 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2} M$ on E., U I R on N., and P L on S. faces, from which;

An aspen, 14 ins. diam., bears N. 24° W., 115 lks. dist., marked U I R $\frac{1}{2} M B T$.

An aspen, 10 ins. diam., bears S. 78° E., 94 lks. dist., marked P L $\frac{1}{2} M B T$.

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CHAINS

No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, N. 74° E. of cor. Pits impracticable.

- 21.30 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which;
An aspen, 8 ins. diam., bears S. 78° W., 206 lks. dist., marked \angle U I R B T.
An aspen, 14 ins. diam., bears S. 32° E., 189 lks. dist., marked \angle P L B T.

No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $23^{\circ} 30'$ W., and S. $23^{\circ} 30'$ E. of post, 4 ft. dist., and raise a mound of earth, .5 ft. base, 2 ft. high N. 74° E. of cor.

Thence S. $58^{\circ} 45'$ W.

- .31.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 102 mile and angle cor., marked 102 M on N.E., \angle U I R on N.W., and P L on S.E. faces, from which;
An aspen, 16 ins. diam., bears N. 2° W., 35 lks. dist., marked \angle U I R 102 M B T.

An aspen, 20 ins. diam., bears S. 14° E. 20 lks. dist., bears \angle P L 102 M B T.

An aspen, 12 ins. diam., bears N. 76° E., 41 lks. dist., marked \angle P L 102 M B T.

An aspen, 10 ins. diam., bears N. $84.$ W., 46 lks. dist., marked \angle U I R 102 M B T.

Land mountainous.

Soil rocky and sandy, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

September 24, at this cor., I set off $0^{\circ} 12'$ S. on the decl. arc, and at 12 h., 00 m., 00 s., l.m.t., observe the sun on the meridian, the resulting lat is $40^{\circ} 00'$, or

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within 1' of the proper lat.

S. 79° W., on the 103d mile.

Ascend along top of ridge, through scattering pines and aspens.

7.00 Top of knoll, descend.

25.40 Set a pine post, 48x14x7 ins., with marked stone, 36 ins. in the ground, for the South West Cor., of the Uintah Indian Reservation, which is also an angle cor., marked S W Cor. \angle U I R on N., and P L on S. faces; dig pits 36x36x12 ins., N. $21^{\circ} 45'$ E., and S. $21^{\circ} 45'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 79° E. of cor.

Thence N. $35^{\circ} 30'$ W.

14.60 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces, from which; An aspen, 10 ins. diam., bears N. 26° E., 24 lks. dist., marked U I R $\frac{1}{2}$ M B T.

An aspen, 8 ins. diam., bears S. 60° E., 12 lks. dist., marked U I R $\frac{1}{2}$ M B T.

No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $54^{\circ} 30'$ E., and S. $54^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $35^{\circ} 30'$ E. of cor.

54.60 Set a "pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 103 mile and angle cor., marked 103 M on S.E., \angle U I R on N.E., and P L on S.W. faces, from which;

An aspen, 10 ins. diam., bears N. 88° W., 152 lks. dist., marked \angle U I R 103 M B T.

An aspen, 12 ins. diam., bears S. 80° W., 145 lks. dist., marked \angle U I R 103 M B T.

An aspen, 14 ins. diam., bears S. 60° W., 194 lks. dist.,

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marked \angle P L 103 M B T.

An aspen, 10 ins. diam., bears S. 48° W., 183 lks.
dist., marked \angle P L 103 M B T.

Land mountainous.

Soil, clay and sandy, 3d rate.

Timber, scattering pines and aspens, 80.00 chs.
Mountainous land, 80.00 chs.

S. $78^\circ 15'$ W. on the 104th mile.

Descend along top of ridge, through scattering pines
and aspens.

17.00 Head of draw, drains N., ascend.

32.30 Set a pine post, 48x6x6 ins., with marked stone, 36 ins.
in the ground, for angle cor., marked U I R on N.,
and P L on S. faces, from which;

An aspen, 12 ins. diam., bears N. 62° W., 87 lks.
dist., marked \angle P L B T.

An aspen, 10 ins. diam., bears S. 46° W., 75 lks. dist.,
marked \angle P L B T.

No other bearing trees available, therefore I dig pits,
36x36x12 ins., N. $28^\circ 15'$ E., and S. $28^\circ 15'$ W. of post,
4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$
ft. high, N. $78^\circ 15'$ E. of cor.

Thence N. $21^\circ 45'$ W.

7.70 Set a pine post, 48x6x6 ins., with marked stone, 36 ins.
in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R
on E., and P L on W. faces, from which;

An aspen, 8 ins. diam., bears N. 8° E., 76 lks. dist.,
marked U I R $\frac{1}{2}$ M B T.

An aspen, 8 ins. diam., bears N. 84° E., 94 lks. dist.,
marked U I R $\frac{1}{2}$ M B T.

No other bearing trees available, therefore I dig pits,
36x36x12 ins., N. $68^\circ 15'$ E., and S. $68^\circ 15'$ W. of
post, 4 ft. dist., and raise a mound of earth, 5 ft.

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base, $2\frac{1}{2}$ ft. high, S. $21^{\circ} 45'$ E. of cor.

30.70 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. $87^{\circ} 45'$ E., and S. $87^{\circ} 45'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $21^{\circ} 45'$ E. of cor.

Thence N. 17° E.

17.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for 104 mile and angle cor., marked 104 M on S., \angle U I R on E., and P L on W., fades; dig pits, 36x36x12 ins., S. $87^{\circ} 30'$ E., and N. $87^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 17° W. of cor..

Land mountainous.

Soil, sandy and loam, 2d rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

September 24, 1903.

N. 12° W., on the 105th mile.

Descend along top of ridge, through scattering pines and aspen timber.

2.00 Head of draw, drains N.E., ascend.

40.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits 36x36x12 ins., N. 78° E., and S. 78° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 12° E. of cor.

60.00 Top of side, projects E..

80.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 105 mile and angle cor., marked 105 M on S., \angle U I R on E., and P L on W. faces; from which; An aspen, 12 ins. diam., bears N. 84° E., 142 lks. dist.,

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CHAINS	<p>marked \angle U I R 105 M B T.</p> <p>An aspen, 10 ins. diam., bears S. 40° E., 176 lks. dist., marked \angle U I R 105 M B T.</p> <p>No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $53^\circ 15'$ E., and S. $53^\circ 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 12° E. of cor.</p> <p>Land mountainous.</p> <p>Soil sandy loam, 3d rate.</p> <p>Timber, scattering pines and aspens, 80.00 chs.</p> <p>Mountainous land, 80.00 chs.</p> <hr/> <p>September 25, 1903, at 9 h., 00 m., a.m., I.m.t., I set off $40^\circ 01' N.$ on the lat. arc; $0^\circ 32'$ S. on the decl. arc, and determine a meridian with the solar, at the 105th mile cor.</p> <p>Thence I run</p> <p>N. $61^\circ 15'$ W., on the 106th mile.</p> <p>Ascend over mountainous land, along top of ridge, through scattering pines and aspens.</p>
40.00	<p>Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I on N.E., and P L on S.W. faces, from which;</p> <p>An aspen, 10 ins. diam., bears N. 8° E., 106 lks. dist., marked U I R $\frac{1}{2}$ M B T.</p> <p>An aspen, 8 ins. diam., bears S. 24° W., 95 lks. dist., marked P L $\frac{1}{2}$ M B T.</p> <p>No other suitable bearing trees available, therefore I dig pits, 36x36x12 ins., N. $28^\circ 45'$ E., and S. $28^\circ 45'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $61^\circ 15'$ E. of cor.</p>
69.60	<p>Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, from which;</p>

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CHAINS

- An aspen, 18 ins. diam., bears S. 6° E., 39 lks. dist., marked \angle P L B T.
- An aspen, 18 ins. diam., bears N. 40° W., 84 lks. dist., marked \angle U I R B T.
- No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $47^{\circ} 20'$ E., and S. $47^{\circ} 20'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $61^{\circ} 15'$ E. of cor.
- Thence N. 24° W.
- 10.40 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 106 mile cor., marked 106 M. on S.E., U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. 66° E., and S. 66° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 24° E. of cor.
- Land mountainous.
- Soil sandy loam, 3d rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.
- September 25, 1903, at this cor., I set off $0^{\circ} 36' S.$ on the decl. arc, and at 14 h.52 m. a. m., 1.p.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 02'$.
-
- N. 24° W. on the 107th mile.
- " Ascend along top of ridge, through scattering pines and aspens.
- 27.00 Top of knoll, descend.
- 40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits 36x36x12 ins., N. 66° E., and S. 66° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 24° E. of cor.
- 60.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.

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CHAINS	<p>in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, from which; An aspen, 14 ins., diam., bears S. 80° E., 27 lks. dist. marked \angle U I R B T.</p> <p>An aspen, 10 ins., diam., bears S. 56° W., 52 lks. dist. marked \angle P L B T.</p> <p>No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $33^\circ 30'$ E., and S. $33^\circ 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 24° E. of cor.</p> <p>Thence N. 89° W.</p> <p>Enter dense pine and aspen timber.</p>
2.00	Set a pine post, 48x6x6 ins., 36 ins. in the ground, for 107 mile and angle cor., marked 107 M on E., \angle U I on N., and P L on S. faces, from which;
20.00	<p>An aspen, 12 ins. diam., bears S. 68° E., 48 lks. dist. marked \angle P L 107 M B T.</p> <p>An aspen, 10 ins. diam., bears N. 40° E., 62 lks. dist. marked \angle U I R 107 M B T.</p> <p>An aspen, 14 ins. diam., bears N. 2° W., 30 lks. dist., marked \angle U I R 107 M B T.</p> <p>An aspen, 12 ins. diam., bears N. 6° W., 103 lks. dist. marked \angle U I R 107 M B T.</p> <p>Land mountainous.</p> <p>Soil sandy loam, 4th rate.</p> <p>Timber, scattering pines and aspens, 62.00 chs., dense aspens and pines, 18.00 chs.</p> <p>Mountainous land, 80.00 chs.</p> <hr/> <p>N. 23° W. on the 108th mile.</p> <p>Descend along top of ridge, through dense aspens and pines.</p>
10.00	Head of draw, drains W., ascend.
30.00	Leave dense pines and aspens, bears N.E. and S.W

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CHAINS

Enter scattering pines and aspens.

40.00 Set a pine post 48x6x6 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2} M$ on S., $\angle U I R$ on E., and $\angle P L$ on W. faces, from which; An aspen, 12 ins. diam., bears N. 60° E., 33 lks. dist., marked $\angle U I R \frac{1}{2} M B T$.

An aspen, 10 ins. diam., bears S. 12° W., 38 lks. dist., marked $\angle P L \frac{1}{2} M B T$.

No other bearing trees available, therefore I dig pits, 36x36x12 ins., S. 78° E., and N. 78° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 23° E. of cor.

Thence N. $47^\circ 15'$ E.

22.70 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked $\angle U I R$ on S.E., and $P L$ on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $47^\circ 15'$ W. of cor. Pits impracticable.

Thence N. $33^\circ 15'$ W.

4.60 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked $\angle U I R$ on N.E., and $P L$ on S.W. faces; dig pits, 36x36x12 ins., N. $41^\circ 30'$ E., and S. $41^\circ 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $33^\circ 15'$ E. of cor.

Thence N. $63^\circ 30'$ W.

12.70 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the "ground, for 108 mile and angle cor., marked 108 M on S.E., $\angle U I R$ on N.E., and $P L$ on S.W. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, S. $63^\circ 30'$ E. of cor. Pits impracticable.

Land mountainous.

Soil sandy loam, 2d rate.

Timber, dense pines and aspens, 30.00 chs., scattering pines and aspens, 50.00 chs.

Mountainous land, 80.00 chs.

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CHAINS

- N. $19^{\circ} 15'$ W. on the 109th mile.
 Ascend through scattering pines and aspens, along top of ridge.
- 12.00 Divide between Willow Creek Canyon and Strawberry Valley, bears E. and W.
- 35.00 S.W. slope of bald knob, top of same about 5 chs. N.E. Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. $19^{\circ} 15'$ E. of cor. Pits impracticable. Thence S. $48^{\circ} 30'$ W.
- 5.00 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.E., U I R on N.W., and P L on S.E. faces; dig pits, 36x36x12 ins., N. $41^{\circ} 30'$ W. and S. $41^{\circ} 30'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $48^{\circ} 30'$ E. of cor.
- 32.00 Head of draw, drains S.E., ascend.
- 37.00 Top of spur, projects S.W., descend.
- 45.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for 109 mile cor., marked 109 M on N.E., U I R on N.W., and P L on S.E. faces, from which; An aspen, 10 ins. diam., bears S. 60° W., 48 lks. dist., marked U I R 109 M B T. An aspen, 12 ins. diam., bears N. 6° W., 62 lks. dist., marked U I R 109 M B T. An aspen, 10 ins. diam., bears S. 84° E., 135 lks. dist., marked P L 109 M B T. An aspen, 10 ins. diam., bears S. 15° E., 55 lks. dist., marked P L 109 M B T. Land mountainous.
- Soil, sandy loam, 2d rate.
- Timbers, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION.

Chains	September 27, 1903: At 9h. 00m. a.m. l.m.t., I set off 40°, 02' N. on the lat. arc; 1° 19' S. on the decl. arc; and determine a meridian with the solar at the 109 mile cor. Thence I run S. 48° 30' W. on the 110th mile. Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on NW.; and P L on SE. faces; from which An aspen 10 ins. diam., bears N. 2° W., 120 lks. dist., marked \angle U I R B T. An aspen, 8 ins. diam., bears S. 64° W., 31 lks. dist., marked \angle P L B T. No other bearing trees available; therefore, I dig pits 36x36x12 ins. N. 26° W., and S. 26° E. of post, 4 ft. dist.; and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 48° 30' E. of cor. Thence S. 79° 30' W. Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on E.: \angle U I R on N.; and P L on S. faces; from which A pine, 10 ins. diam., bears N. 82° W., 34 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T. A pine, 12 ins. diam., bears S. 32° E., 50 lks. dist., marked \angle P L $\frac{1}{2}$ M B T. No other bearing trees available; therefore, I dig pits 36x36x12 ins. N. 20° 30' W. and S. 20° 30' E. of post, 4 ft. dist.; and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 79° 30' E. of cor. Thence S. 59° 45' W. Bottom of saddle in ridge, ascend Wagon road, bears NE. and SW. Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on NW.; and P L on SE. faces; dig pits, 36x36x12 ins. N. 18° W. and S. 18° E. of post, 4 ft. dist.; and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 59° 45' E. of cor. Thence S. 84° 15' W. Head of draw, drains SW. Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for 110 mile cor., marked 110 M on E.; U I R on N.; and P L on S. faces; dig pits, 36x36x12 ins. N. 5° 45' W. and S. 5° 45' E. of stone, 4 ft. dist.; and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 84° 15' E. of cor. Land, mountainous. Soil, sandy loam; 3rd rate. Timber, scattering pine and aspens on 80.00 chs. Mountainous land on 80.00 chs. September 27, 1903: At noon hour sky overcast; and ob- servation impossible.
5.00	S. 84° 15' W. on the 111th mile. Descend through scattering pines and aspens; along top of ridge. Spur, projects north.
8.00	Head of draw, drains SW. Ascend.

SOUTH AND WEST BOUNDARY UNTAH INDIAN RESERVATION.

- | Chains | |
|--------|---|
| 18.80 | Spur, projects SW.; descend. |
| 23.30 | Set a pine post, 48x6x6 ins., with marked stone, 36 ins in the ground, for angle cor., marked \angle U I R on N.; and P L on S. faces; from which
An aspen, 8 ins. diam., bears N. 12° W.,
182 lks. dist., marked \angle U I R B T.
A pine, 14 ins. diam., bears S. 20° E.,
108 lks. dist., marked \angle P L B T.

No other bearing trees available; therefore, I dig pits
36x36x12 ins. N. $14^\circ 30'$ E. and S. $14^\circ 30'$ W. of post;
4 ft. dist.; and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$
ft. high, N. $84^\circ 15'$ E. of cor.

Thence N. 55° W., |
| 18.70 | Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on SE.; U I R on NE.; and P L on SE. faces; from which
An aspen, 6 ins. diam., bears N. 36° E.,
30 lks. dist., marked U I R $\frac{1}{2}$ M B T.
An aspen, 6 ins. diam., bears S. 20° E.,
32 lks. dist., marked P L $\frac{1}{2}$ M B T.

No other bearing trees available; therefore, I dig pits
36x36x12 ins., N. 35° E., and S. 35° W., of post, 4 ft.
dist.; and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft.
high, S. 55° E. of cor. |
| 18.00 | Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on NE.; |

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	and P L on S.W. faces; dig pits, 36x36x12 ins., N. $44^{\circ} 15'$ E., and S. $44^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 55° E. of cor.
	Thence N. $35^{\circ} 30'$ W.
6.00	Bottom of saddle and wagon road, bears N.E. and S.W., Sheep Creek on S.W., and Indian Creek on E. N. E.
26.00	Head of draw, drains S.W., ascend.
27.00	Spur, projects N.E.
37.80	Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for 111 mile cor., marked 111 M on S.E., U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $64^{\circ} 30'$ E., and S. $64^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $35^{\circ} 30'$ E. of cor.
	Land mountainous.
	Soil, sandy loam, 3d rate.
	Timber, scattering pines and aspens, 80.00 chs.
	Mountainous land, 80.00 chs.

	N. $35^{\circ} 30'$ W., on the 112th mile.
	Ascend along top of ridge, through scattering pines and aspens.
27.00	Set a pine post, 48x6x6 ins. with mkd. stone, 36 ins. in ground for angle cor., mkd. U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. 72° E., and S. 72° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $35^{\circ} 30'$ E. of cor.
	Thence N. $0^{\circ} 45'$ W.
13.00	Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. $89^{\circ} 15'$ E., and S. $89^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 0°

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CHAINS

45' E. of cor.

- 23.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. $74^{\circ} 30'$ E., and S. $74^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $0^{\circ} 45'$ E. of cor.

Thence N. $30^{\circ} 30'$ W.

- 5.00 Top of knoll, descend.

- 25.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces; dig pits 36x36x12 ins., E. and W. post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $30^{\circ} 30'$ E. of cor.

Thence N. $30^{\circ} 45'$ E.

- 3.00 Bottom of saddle in ridge,, ascend.

- 5.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for 112 mile cor., marked 112 M on S.W., U I R on S.E., and P L on N.W. faces, from which; An aspen, 6 ins. diam., bears S. 6° E., 130 lks. dist., marked U I R 112 M B T.

An aspen, 10 ins. diam., bears N. 84° E., 209 lks. dist., marked U I R 112 M B T.

No other bearing trees available, therefore I dig pits, 36x36x12 ins., S. $59^{\circ} 15'$ E., and N. $59^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $30^{\circ} 45'$ W. of cor.

Land mountainous.

Soil sandy loam, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

September 27, 1903.

N. $30^{\circ} 45'$ E., on the 113th mile.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Thence N. $9^{\circ} 30'$ E.

8.20 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on S., U I R on E., and P L on W. faces; dig pits 36x36x12 ins., S. $81^{\circ} 30'$ E., and N. $81^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $9^{\circ} 30'$ W. of cor.

35.30 Set a pine post, 48x6x6 ins., 36 ins. in the ground, for angle cor., marked \angle U I R on S.E., and P L on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $9^{\circ} 30'$ W. of cor. Pits impracticable.

Thence N. $39^{\circ} 45'$ E.

12.90 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for 115 mile cor., marked 115 M on S.W., U I R on S.E., and P L on N.W. faces; dig pits 36x36x12 ins., S. $50^{\circ} 15'$ E., and N. $50^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $39^{\circ} 45'$ W. of cor.

Land mountainous.

Soil rocky and sandy, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Undergrowth, dense cherry, 13.00 chs.

Mountainous land, 80.00 chs.

N. $39^{\circ} 45'$ E. on the 116th mile.

" Descend along top of ridge, through scattering pines and aspens.

1.00 Enter dense cherry undergrowth.

20.00 Bottom of saddle in ridge, ascend.

27.00 Top of knoll, descend.

Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and P L on N.W. faces; dig pits, 36x36x12 ins., S. $73^{\circ} 30'$ E., and N. $73^{\circ} 30'$ W., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- high, S. $39^{\circ} 45'$ W. of cor.
 Thence N. $6^{\circ} 30'$ W.
 13.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. $83^{\circ} 30'$ E., and S. $83^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $6^{\circ} 30'$ E. of cor.
 23.00 Head of draw, drains W., ascend.
 33.00 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $6^{\circ} 30'$ E. of cor. Pits impracticable.
 Thence N. $52^{\circ} 45'$ E.
 8.00 Bottom of saddle in ridge, ascend.
 20.00 Set a pine post, 48x6x6 ins., 36 ins. in the ground, for 116 mile cor., marked 116 M on S.W., U I R on S.E., and P L on N.W. faces, from which;
 An aspen, 10 ins. diam., bears S. 40° E. 75 lks. dist., marked U I R 116 M B T.
 An aspen, 8 ins. diam., bears N. 87° E., 135 lks. dist., marked U I R 116 M B T.
 An aspen, 8 ins. diam., bears N. 40° W., 95 lks. dist., marked P L 116 M B T.
 An aspen, 14 ins. diam., bears N. 60° W., 142 lks. dist., marked P L 116 M B T.
 Land mountainous.
 Soil sandy and clay, 3d rate.
 Timber, scattering pines and aspens, 80.00 chs.
 Undergrowth, dense cherry 80.00 chs.
 Mountainous land, 80.00 chs.

September 28, 1903.

N. $52^{\circ} 45'$ E., on the 117th mile.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Ascend along top of ridge, through scattering aspens and pines, and dense cherry undergrowth.

12.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on S.E., and P L on N.W. faces, from which; An aspen, 14 ins. diam., bears N. 87° E., 42 lks. dist., marked \angle U I R B T.

An aspen, 10 ins. diam., bears S. 48° W., 36 lks. dist., marked \angle U I R B T.

No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $52^\circ 45'$ W. of cor. Pits impracticable.

Thence N. $17^\circ 45'$ E.

28.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., S. $72^\circ 15'$ E., and N. $72^\circ 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $17^\circ 45'$ W. of cor.

52.00 Leave dense cherry undergrowth.

52.50 Bottom of saddle in ridge, ascend.

64.00 Top of spur, projects S.E., descend.

68.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for 117 mile cor., marked 117 M on S., U I R on E., and P L on W. faces; dig pits 36x36x12 ins., S. $72^\circ 15'$ E., and N. $72^\circ 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $17^\circ 45'$ W. of cor.

Land mountainous.

Soil rocky and loam, 3d rate.

Timber, scattering pines and aspens, 80.00 chs.

Undergrowth, dense cherry, 52.00 chs.

Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- high, S. $39^{\circ} 45'$ W. of cor.
 Thence N. $6^{\circ} 30'$ W.
 13.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. $83^{\circ} 30'$ E., and S. $83^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $6^{\circ} 30'$ E. of cor.
 23.00 Head of draw, drains W., ascend.
 33.00 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P. L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $6^{\circ} 30'$ E. of cor. Pits impracticable.
 Thence N. $52^{\circ} 45'$ E.
 8.00 Bottom of saddle in ridge, ascend.
 20.00 Set a pine post, 48x6x6 ins., 36 ins. in the ground, for 116 mile cor., marked 116 M on S.W., U I R on S.E., and P L on N.W. faces, from which;
 An aspen, 10 ins. diam., bears S. 40° E. 75 lks. dist., marked U I R 116 M B T.
 An aspen, 8 ins. diam., bears N. 87° E., 135 lks. dist., marked U I R 116 M B T.
 An aspen, 8 ins. diam., bears N. 40° W., 95 lks. dist., marked P L 116 M B T.
 An aspen, 14 ins. diam., bears N. 60° W., 142 lks. dist., marked P L 116 M B T.
 Land mountainous.
 Soil sandy and clay, 3d rate.
 Timber, scattering pines and aspens, 80.00 chs.
 Undergrowth, dense cherry 80.00 chs.
 Mountainous land, 80.00 chs.

September 28, 1903.

N. $52^{\circ} 45'$ E., on the 117th mile.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Ascend along top of ridge, through scattering aspens and pines, and dense cherry undergrowth.

12.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on S.E., and P L on N.W. faces, from which;

An aspen, 14 ins. diam., bears N. 87° E., 42 lks. dist., marked \angle U I R B T.

An aspen, 10 ins. diam., bears S. 48° W., 36 lks. dist., marked \angle U I R B T.

No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $52^\circ 45'$ W. of cor. Pits impracticable.

Thence N. $17^\circ 45'$ E.

28.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., S. $72^\circ 15'$ E., and N. $72^\circ 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $17^\circ 45'$ W. of cor.

52.00 Leave dense cherry undergrowth.

52.50 Bottom of saddle in ridge, ascend.

64.00 Top of spur, projects S.E., descend.

68.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for 117 mile cor., marked 117 M on S., U I R on E., and P L on W. faces; dig pits 36x36x12 ins., S. $72^\circ 15'$ E., and N. $72^\circ 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $17^\circ 45'$ W. of cor.

Land mountainous.

Soil rocky and loam, 3d rate.

Timber, scattering pines and aspens, 80.00 chs.

Undergrowth, dense cherry, 52.00 chs.

Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- N. $17^{\circ} 45'$ E. on the 118th mile.
- Descend along top of ridge, through scattering pines and aspens.
- 2.00 Head of draw, drains S.E., ascend.
- 10.00 Enter dense cherry undergrowth, bears E. and W., descend.
- 19.00 Leave cherry undergrowth, bears E. and W.
- 23.80 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;
- An aspen, 14 ins. diam., bears S. 48° E., 50 lks. dist., marked \angle U I R B T.
- An aspen, 12 ins. diam., bears N. 40° W., 3 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore I dig pits, 36x36x12 ins., S. 79° E., and N. 79° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $17^{\circ} 45'$ W. of cor.
- Thence N. $4^{\circ} 15'$ E.
- 16.20 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., S. 86° E., and N. 86° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $4^{\circ} 15'$ W. of cor.
- 46.20 Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 40° W. of cor. Pits impracticable.
- Thence N. $21. 00'$ W.
- 4.00 Enter dense cherry undergrowth.
- 10.00 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for 118 mile and angle cor., marked 118 M on S., \angle U I R on E., and P L on W. faces; dig pits 36x36x12 ins., N. $76^{\circ} 20'$ E., and S. $76^{\circ} 20'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	ft. high, S. 21° E. of cor.
	Land mountainous.
	Soil rocky and sandy, 3d rate.
	Timber, scattering pines and aspens, 80.00 chs.
	Mountainous land, 80.00 chs.
	Undergrowth, dense cherry, 25.00 chs.
	September 29, at noon hour, sky was overcast and observation impossible.

	N. 5° W., on the 119th mile.
	Descend along top of ridge, through dense cherry undergrowth, and scattering pines and aspens.
26.00	Bottom of saddle in ridge, ascend.
26.50	Old Railway Grade, bears E. and W.
40.00	Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. 85° E., and S. 85° W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 5° E. of cor.
52.00	Spur projects N.E., descend.
58.00	Bottom of descent, ascend abruptly, leavy cherry undergrowth, and scattering pines and aspens.
66.00	Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 6° E. of cor.
	Pits impracticable.
	Thence N. 60° W.,
14.00	Set a pine post, 48x6x6 ins. with mkd. stone 36 ins. in ground for 119 mi. cor. marked 119 M on S.E., U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. 30° E., and S. 30° W., of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 60° E. of cor.
	Land mountainous.
	Soil, sandy loam, 2d and 3d rates.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- Timber, scattering pines and aspens, 58.00 chs.
- Dense cherry undergrowth, 58.00 chs.
- Mountainous land, 80.00 chs.
- September 29, 1903, sky was overcast all afternoon, and observation impossible.
-
- N. 60° W., on the 120th mile.
- Ascend along top of ridge, over mountainous land.
- 2.00 Enter dense sage-brush.
- 17.10 Set a sandstone, 24x17x7 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 60° E. of cor.
- Pits impracticable.
- Thence N. $15^{\circ} 15'$ E.
- 3.00 Top of ascent, descend, enter dense cherry undergrowth, and scattering pines and aspens.
- 15.10 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 4 ft. base, 2 ft. high, S. $15^{\circ} 15'$ W. of cor. Pits impracticable.
- Thence N. $42^{\circ} 15'$ E.
- 7.80 Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.W., U I R on S.E., and P L on N.W. faces, from which; An aspen, 8 ins. diam., bears N. 22° W., 208 lks. dist., marked P L $\frac{1}{2}$ M B T.
- An aspen, 16 ins. diam., bears N. 74° E., 38 lks. dist., marked U I R $\frac{1}{2}$ M B T.
- No other suitable bearing trees available, therefore I dig pits, 36x36x12 ins., N. $47^{\circ} 45'$ W., and S. $47^{\circ} 45'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $42^{\circ} 15'$ W. of cor.
- 18.80 Set a sandstone, 24x15x6 ins., 18 ins. in the ground,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- for angle cor., marked \angle U I R on S.E., and P.L. on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $42^{\circ} 15'$ W. of cor. Pits impracticable. Thence N. 2° E.
- 15.00 Head of draw, drains W., ascend.
- 29.00 Set a pine post, 48x6x6 ins., 36 ins. in the ground, for 120 mile cor., marked 120 M on S., U I R on E., and P L on W. faces, from which;
- An aspen, 10 ins. diam., bears S. 44° E., 172 lks. dist., marked U I R 120 M B T.
- An aspen, 12 ins. diam., bears S. 80° E., 85 lks. dist., marked U I R 120 M B T.
- An aspen, 10 ins. diam., bears S. 76° W., 90 lks dist., marked P L 120 M B T.
- An aspen, 10 ins. diam., bears S. 10° W., 104 lks. dist., marked P L 120 M B T.
- Land mountainous.
- Soil sandy loam, 2d rate.
- Timber, scattering pines and aspens, 59.90 chs.
- Dense cherry undergrowth, 59.90 chs.
- Mountainous land, 80.00 chs.
-
- N. 2° E., on the 121st mile.
- Ascend through scattering aspens and dense cherry undergrowth.
- 8.00 Leave scattering aspens, bears E. and W.
- 18.00 Top of ascent, descend.
- 20.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $2^{\circ} 00'$ W. of cor. Pits impracticable. Thence N. $32^{\circ} 45'$ E.
- 20.00 Set a pine post, 48x4x4 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- S.W., \angle U I R on S.E., and P L on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $32^{\circ} 45'$ W. of cor. Pits impracticable.
- Thence N. $9^{\circ} 15'$ W.
- 5.00 Spur projects N.E.
- 13.70 Set a pine post, 48x6x6 ins., with marked stone, 36 ins., in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $9^{\circ} 15'$ E. of cor. Pits impracticable.
- Thence N. $47^{\circ} 30'$ W.
- 11.30 Bottom of descent, ascend.
- 26.30 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for 121 mile and angle cor., marked 121 M on S.E., \angle U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $47^{\circ} 30'$ E. of cor. Pits impracticable.
- Land mountainous.
- Soil rocky and sandy, 4th rate.
- Timber, scattering aspens, 8.00 chs.
- Dense cherry undergrowth, 80.00 chs.
- Mountainous land, 80.00 chs.
-
- October 1, 1903, at 8 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 10'$ N. on the lat. arc; $2^{\circ} 51'$ S. on the decl. arc, and determine a meridian with the solar, at the 121 mile cor.
- Thence I run
- N. $34^{\circ} 45'$ W. on the 122d mile.
- Descend along top of ridge, through choke-cherry undergrowth.
- 20.00 Head of draw, drains W., ascend.
- 33.00 Top of ascent, descend.
- 40.00 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.E., \angle U I R on N.E.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

and P L on S.W. faces; dig pits, 36x36x12 ins., N. $81^{\circ} 20'$ E., and S. $81^{\circ} 20'$ W. of stone, and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $34^{\circ} 45'$ E. of cor. Thence N. $2^{\circ} 30'$ E.

21.00 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. $70^{\circ} 50'$ E., and S. $70^{\circ} 50'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $2^{\circ} 30'$ W. of cor. Thence N. $40^{\circ} 45'$ W.

9.00 Head of draw, drains S.W., ascend.

19.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 122 mile cor., marked 122 M on S.E., U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $49^{\circ} 15'$ E., and S. $49^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $40^{\circ} 45'$ E. of cor. Pits impracticable.

Land mountainous.

Soil rocky and stony, 4th rate.

No timber.

Dense cherry undergrowth, 80.00 chs.

Mountainous land, 80.00 chs.

October 1, 1903, at this cor., I set off $2^{\circ} 56'$ S. on the decl. arc, and at 11 h., 51 m. A.M., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 11'$ N.

N. $40^{\circ} 45'$ W. on the 123d mile.

Ascend along top of ridge, through dense choke cherry undergrowth.

23.80 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $40^{\circ} 45'$ E. of cor. Pits impracticable.

Thence N. $33^{\circ} W.$

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
1.00	Top of ascent, descend.
16.20	Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 33° E. of cor. Pits impracticable.
51.20	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $37^{\circ} 45'$ E., and S. $37^{\circ} 45'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 33° E. of cor. Thence N. $71^{\circ} 30'$ W.
5.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 123 mile and angle cor., marked 123 M on E., \angle U I R on N., and P L on SW. faces; dig pits, 36x36x12 ins., N. $32^{\circ} 30'$ E., and S. $32^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $71^{\circ} 30'$ E. of cor. Land mountainous. Soil, rocky and stony, 4th rate. No timber. Dense cherry undergrowth, 80.00 chs. Mountainous land, 80.00 chs.
35.00	Head of draw, drains N.E.
40.00	Set a pine post, 48x6x6 ins., with marked stone, 36 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces, and raise a mound of sto-

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	3 ft. base, 2 ft. high, S. $50^{\circ} 30'$ E. of cor. Pits impracticable.
44.50	A pine tree, 14 ins. diam., for angle cor., I mark \angle U I R on N.E., and P L on S.W. side, from which; A pine, 14 ins. diam., bears N. 31° W., 10 lks. dist., marked \angle P L B.T. A pine, 16 ins. diam., bears S. 65° W., 15 lks. dist., marked \angle P L B.T. No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $50^{\circ} 30'$ E. of cor. Pits impracticable. Thence N. $28^{\circ} 30'$ E.
9.50	Top of ascent, descend.
11.50	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S.E., and P L on N.W. faces, from which; An aspen, 14 ins. diam., bears S. 80° E., 138 lks. dist., marked \angle U I R B.T. No other bearing trees available, therefore, I dig pits, 36x36x12 ins., N. $82^{\circ} 45'$ E., and S. $82^{\circ} 45'$ W., 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $28^{\circ} 30'$ W. of cor. Thence N. 43° W.
24.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 124 mile and angle cor., marked 124 M on S.E., \angle U I R on N.E., and P L on S.W. faces; dig pits, 36x6x6 ins., N. $34^{\circ} 30'$ E., and S. $34^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 43° E. of cor. Land mountainous. Soil, rocky and sandy, 4th rate. Timber, scattering pines and aspens, 80.00 chs. Mountainous land, 80.00 chs.

October 1, 1903.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- N. 68° W., on the 125th mile.
 Descend along top of ridge, through scattering pines and aspens.
- 18.50 Set a sandstone, 24x19x7 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 68° E. of cor. Pits impracticable.
 Thence N. $12^{\circ} 45'$ W.
- 16.50 Bottom of saddle in ridge, ascend.
- 21.50 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on S., U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $12^{\circ} 45'$ E. of cor. Pits impracticable.
- 38.50 Top of spur, projects N.E.
 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;
 An aspen, 14 ins. diam., bears N. 48° E., 218 lks. dist., marked \angle U I R B T.
 An aspen, 10 ins. diam., bears S. 42° W., 193 lks. dist., marked \angle P L B T.
 No other bearing trees available, therefore, I dig pits; 36x36x12 ins., N. $67^{\circ} 15'$ E., and S. $67^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $12^{\circ} 45'$ E. of cor. Pits impracticable.
 Thence N. $32^{\circ} 45'$ W.
- 19.00 Bottom of descent, ascend.
- 23.00 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for 125 mile and angle cor., marked 125 M on S.E., \angle U I R on N.E., and P L on S.W. faces, from which;
 An aspen, 10 ins. diam., bears N. 62° E., 98 lks. dist., marked 125 M \angle U I R B T.
 No other bearing trees available, therefore I raise a

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

mound of stone, 3 ft. base, 2 ft. high, S. $32^{\circ} 45'$ E. of cor. Pits impracticable.

Land mountainous.

Soil, rocky and stony, 4th rate.

Timber, scattering aspens, 80.00 chs.

Mountainous land, 80.00 chs.

October 2, 1903, at 10 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 13'$ N. on the lat. arc; $3^{\circ} 17'$ S. on the decl. arc, and determine a meridian with the solar, at the 125th mile cor.

Thence I run

N. $29^{\circ} 45'$ W. on the 126th mile.

Ascend along top of ridge, through scattering aspens and pines.

10.00 Top of ascent, descend.

25.00 Bottom of descent, ascend.

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.E., \angle U I R on N.E., and P L on S.W. faces, from which; A pine, 10 ins. diam., bears N. 42° E., 09 lks. dist., marked $\frac{1}{2}$ M \angle U I R B T.

A pine, 22 ins. diam., bears N. 60° W., 43 lks. dist., marked $\frac{1}{2}$ M \angle P L B T.

No other bearing trees available, therefore, I dig pits, 36x36x12 ins., N. $84^{\circ} 15'$ E., and S. $84^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $29^{\circ} 45'$ E. of cor.

Thence N. $18^{\circ} 15'$ E.

10.20 Set a pine post, 36x6x6 ins.; with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which; A pine, 14 ins. diam., bears S. 36° E., 190 lks. dist., marked \angle U I R B T.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- A pine, 20 ins. diam., bears S. 80° W., 220 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $18^{\circ} 15'$ W. of cor. Pits impracticable.
- Thence N. $0^{\circ} 15'$ W.
- 29.80 Set a pine post, 36x8x7 ins. with mkd. stone, 18 ins. in ground for 126 mile cor., marked 126 M on S., U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $0^{\circ} 15'$ E. of cor. Pits impracticable.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- Timber, scattering aspens and pines, 80.00 chs.
- Mountainous land, 80.00 chs.
-
- N. $0^{\circ} 15'$ W. on the 127th mile.
- Descend along top of ridge, through scattering pines and aspens.
- 4.00 Head of draw, drains S.W., ascend.
- 13.80 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;
- A pine, 12 ins. diam., bears N. 74° E., 54 lks. dist., marked \angle U I R B T.
- A pine, 14 ins. diam., bears S. 16° W., 36 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $0^{\circ} 15'$ E. of cor. Pits impracticable.
- Thence N. $11^{\circ} 45'$ W.
- 17.20 Set a sandstone, 24x18x6 ins.; 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $11^{\circ} 45'$ E. of cor. Pits impracticable.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Thence N. $9^{\circ} 30'$ E.
9.00	Set a sandstone, 24x16x10 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S., \angle U I R on E., and P. L on W. faces, from which; An aspen, 12 ins. diam., bears S. 38° E., 98 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T. An aspen, 14 ins. diam., bears N. 34° E., 130 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T. No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $9^{\circ} 30'$ W. of cor. Pits impracticable.
	Thence N. 78° E.
8.80	Set a sandstone, 20x14x10 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., P L on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 78° E. of cor. Pits impracticable.
	Thence N. $88^{\circ} 45'$ E.
15.90	Set a sandstone, 26x24x12 ins., 21 ins. in the ground, for angle cor.; marked \angle U I R on S., and P L on N. faces, from which; An aspen, 16 ins. diam., bears S. 20° E., 38 lks. dist., marked \angle U I R B T. A pine, 16 ins. diam., bears N. 18° W., 104 lks. dist., marked \angle P L B T. No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $88^{\circ} 45'$ W. of cor. Pits impracticable.
	Thence N. $36^{\circ} 15'$ E.
1.00	Leave scattering pine and aspen timber; enter sage-brush undergrowth, bears E. and W.
8.00	Leave sage-brush undergrowth, enter scattering pines and aspens, bears E. and W.
15.30	Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked 127 M on S.W., U I R on S.E., and

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- and P L on N.W. faces, from which;
 An aspen, 14 ins. diam., bears S. 40° E., 142 lks. dist.,
 marked 127 M U I R B T.
 An pine, 16 ins. diam., bears N. 52° E., 38 lks. dist.,
 marked 127 M U I R B T.
 A pine, 12 ins. diam., bears N. 20° E., 34 lks. dist.,
 marked 127 M P L B T.
 An aspen, 12 ins. diam., bears S. 70° W., 108 lks. dist.,
 marked 127 M P L B T.
- Land mountainous.
 Soil rocky and stony, 4th rate.
 Timber, scattering pines and aspens, 73.00 chs.
 Undergrowth, sage-brush, 7.00 chs.
 Mountainous land, 80.00 chs.
-
- N. $36^{\circ} 15'$ E., on the 128th mile.
 Descend along top of ridge, through scattering pines and
 aspens.
- 2.00 Bottom of saddle in ridge, at head of Diamond Fork, asce
 16.60 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.
 in the ground, for angle cor., marked \angle U I R on S.E.,
 and P L on N.W. faces, from which;
 An aspen, 8 ins. diam., bears N. 28° E., 20 lks. dist.,
 marked \angle U I R B T.
 An aspen, 16 ins. diam., bears S. 62° W., 23 lks. dist.,
 marked \angle P L B T.
 No other bearing trees available, therefore, I raise a
 mound of stone, 3 ft. base, 2 ft. high, S. $36^{\circ} 15'$ W.
 of cor. Pits impracticable.
 Thence N. $55^{\circ} 45'$ W.
- 8.40 Set a sandstone, 24x18x6 ins., 18 ins. in the ground;
 for angle cor., marked \angle U I R on N.E., and P L on S.W.
 faces, from which;
 An aspen, 12 ins. diam., bears S. 76° E., 40 lks. dist.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	marked \angle U I R B T.
	An aspen, 10 ins. diam., bears S. 30° W., 40 lks. dist., marked \angle P L B T.
	No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $55^\circ 45'$ E. of cor. Pits impracticable.
	Thence N. $32^\circ 15'$ W.
5.00	Top of ascent, descend.
15.00	Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $32^\circ 15'$ E. of cor. Pits impracticable.
35.00	Bottom of descent, ascend.
55.00	Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for 128 mile and angle cor., marked 128 M on S.E., \angle U I R on N.E., and P L on S.W. faces, from which; An aspen, 16 ins. diam., bears N. 28° E. 64 lks. dist., marked 128 M \angle U I R B T. An aspen, 14 ins. diam., bears N. 82° E., 35 lks. dist., marked 128 M \angle U I R B T. An aspen, 14 ins. diam., bears N. 80° W., 17 lks. dist., marked 128 M \angle P L B T. A pine, 12 ins. diam., bears S. 70° W., 35 lks. dist., marked 128 M \angle P L B T. Land mountainous. Soil rocky and stony, 4th rate. Timber, scattering pines and aspens, 80.00 chs. Mountainous land, 80.00 chs. M., October 2, 1903, at 12 h., 00 m., l.m.t., the sky was overcast and observation impossible.
	N. $54^\circ 30'$ W. on the 129th mile. Ascend along top of ridge, through scattering pines and

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

- | CHAINS | |
|--------|--|
| | aspens. |
| 15.00 | Spur projects N.E., descend. |
| 24.30 | Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces; dig pits, 36x36x12 ins., N. $46^{\circ} 50'$ E. and S. $46^{\circ} 50'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $54^{\circ} 30'$ E. of cor. Thence N. $31^{\circ} 45'$ W. |
| 15.70 | Set a sandstone, 24x19x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.E., \angle U I R on N.E., and P L on S.W. faces, from which; A pine, 10 ins. diam., bears N. 38° E. 112 lks. dist., marked $\frac{1}{2}$ M U I R B T.
An aspen, 14 ins. diam., bears S. 60° W., 08 lks. dist., marked $\frac{1}{2}$ M P L B T.
No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $31^{\circ} 45'$ E. of cor. Pits impracticable. Thence N. $8^{\circ} 15'$ W. |
| 16.00 | Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which; An aspen, 16 ins. diam., bears S. 88° E., 05 lks. dist., marked \angle U I R B T.
An aspen, 10 ins. diam., bears S. 20° W., 17 lks. dist., marked \angle P L B T.
No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $8^{\circ} 15'$ E. of cor. Pits impracticable. Thence N. $46^{\circ} 30'$ W. |
| 10.10 | Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, from which; An aspen, 12 ins. diam., bears N. 50° W., 05 lks. dist., |

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- marked \angle U I R B T.
- An aspen, 10 ins. diam., bears S. 14° E., 07 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $16^\circ 15'$ E., and S. $16^\circ 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5' ft. base, $2\frac{1}{2}$ ft. high, S. $46^\circ 30'$ E. of cor.
- Thence S. 79° W.
- 2.40 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which;
- An aspen, 14 ins. diam., bears N. 16° E., 50 lks. dist., marked \angle U I R B T.
- An aspen, 15 ins. diam., bears S. 45° W., 38 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, N. 79° E. of cor. Pits impracticable.
- Thence N. 44° W.
- 11.50 Set a sandstone, 24x17x8 ins., 18 ins. in the ground, for 129 mile cor., marked 129 M on S.E., U I R on N.E., and P L on S.W. faces, from which;
- An aspen, 14 ins. diam., bears N. 20° W., 110 lks. dist., marked 129 M U I R B T.
- An aspen, 10 ins. diam., bears N. 82° E., 142 lks. dist., marked 129 M U I R B T.
- An aspen, 12 ins. diam., bears S. 2° E., 95 lks. dist., marked 129 M P L B T.
- An aspen, 12 ins. diam., bears S. 79° W., 53 lks. dist., marked 129 M P L B T.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

N. 44° W., on the 130th mile.

Ascend along top of ridge, through scattering pines and aspen timber.

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces, from which; A pine, 26 ins. diam., bears N. 5° E., 40 lks. dist., marked $\frac{1}{2}$ M U I R B T.

A pine, 24 ins. diam., bears S. 8° W., 105 lks. dist., marked $\frac{1}{2}$ M P L B T.

No other bearing trees available, therefore, I dig pits, 36x36x12 ins., N. 46° E., and S. 46° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 44° E. of cor.

70.00 Leave scattering pines and aspens, enter sage-brush, E. and W.

75.00 Top of the South East Twin Peak, descend.

80.00 Set a sandstone, 36x24x18 ins., 24 ins. in the ground, for 130 mile and angle cor., marked 130 M on S.E., \angle U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 44° E. of cor. Pits impracticable.

Land mountainous.

Soil rocky and sandy, 4th rate.

Timber, scattering pines and aspens, 70.00 chs.

Dense sage-brush undergrowth, 10.00 chs.

Mountainous land, 80.00 chs.

N. 65° W. on the 131st mile.

Descend along top of ridge, through scattering pine and aspen timber.

15.00 Bottom of low saddle between Twin Peaks.

15.00 Top of NW. Twin Peak

Set a sandstone, 24x18x10 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	<p>faces, from which;</p> <p>A pine, 10 ins. diam., bears N. 52° E., 78 lks. dist., marked \angle U I R B T.</p> <p>A pine, 18 ins. diam., bears S. 14° W., 220 lks. dist., marked \angle P L B T.</p> <p>No other bearing trees available, therefore, I raise a mound of stone 3 ft. base, 2 ft. high, S. 65° E. of cor. Pits impracticable.</p> <p>Thence N. 73° W.</p>
10.40	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on E., U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 73° E. of cor. Pits impracticable.
12.40	Bottom of descent, ascend.
14.40	<p>Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, from which;</p> <p>A pine, 12 ins. diam., bears N. 86° E., 106 lks. dist., marked \angle U I R B T.</p> <p>An aspen, 18 ins. diam., bears S. 62° W., 28 lks. dist., marked \angle P L B T.</p> <p>No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 73° E. of cor. Pits impracticable.</p> <p>Thence N. 7° E.</p>
16.00	Head of draw, drains N.E., ascend.
17.00	Top of knoll, descend abruptly.
22.00	Bottom of descent, ascend.
26.00	<p>Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 131 mile and angle cor., marked 131 M on S., \angle U I R on E., and P L on W., faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 7° W. of cor. Pits impracticable.</p> <p>Land mountainous.</p>

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Soil rocky and stony, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

October 2, 1903.

N. $5^{\circ} 45'$ E. on the 132d mile.

Ascend along top of ridge, through scattering pines and aspens.

14.60 Angle cor. falls on a rock in place, 5x5x6 ft. above ground. At the exact cor. point, I cut a cross (X) for angle cor., marked \angle U I R on E., and P L on W. of gross (X), from which;

An aspen, 10 ins. diam., bears S. 78° E., 98 lks. dist., marked \angle U I R B T.

An aspen, 8 ins. diam., bears S. 86° W., 57 lks. dist., marked \angle P L B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $5^{\circ} 45'$ W. of cor. Pits impracticable.

Thence N., $35^{\circ} 45'$ W.

Ascend along top of ridge leading to Strawberry Peak.

25.40 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and P L on S.W. faces, from which;

A pine, 16 ins. diam., bears S. 6° E., 70 lks. dist., marked U I R $\frac{1}{2}$ M B T.

An aspen, 6 ins. diam., bears N. 32° W., 115 lks. dist., marked U I R $\frac{1}{2}$ M B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $35^{\circ} 45'$ E. of cor. Pits impracticable.

36.30 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked U I R on N.E., and P L on S.W. faces and raise a mound of stone, 3 ft. base, 2 ft. high, S. $35^{\circ} 45'$ E. of cor. Pits impracticable.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Thence N. $47^{\circ} 30'$ E.
17.10	Set a sandstone, 24x18x8 ins., 18 ins. in the ground for angle cor. marked U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $47^{\circ} 30'$ W. of cor. Pits impracticable.
	Thence N. $6^{\circ} 15'$ E.
0.20	Top of knoll, descend.
2.00	Bottom of descent, ascend.
4.00	Top of knoll, descend.
10.00	Set a sandstone, 24x18x12 ins., 18 ins. in the ground, for 132 mile cor., marked 132 M on S., U I R on E., and P L on W. faces, from which; An aspen, 16 ins. diam., bears S. 38° W., 145 lks. dist., marked P L 132 M B T. A pine, 10 ins. diam., bears N. 80° W., 105 lks. dist., marked UIR 132 M B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $6^{\circ} 15'$ W. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky and stony, 4th rate.
	Timber, scattering pines and aspens, 80.00 chs.
	Mountainous land, 80.00 chs.

	October 3, 1903, at 10 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 18'$ N. on the lat. arc; $3^{\circ} 39'$ S. on the decl. arc, and determine a meridian with the solar at the 132 mile cor.,
	Thence I run,
	N. $6^{\circ} 15'$ E. on the 133d mile.
	Descend along top of ridge, through scattering pines and aspens.
22.20	Set a sandstone, 36x18x12 ins., 27 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- and raise a mound of stone, 3 ft. base, 2 ft. high, S. $6^{\circ} 15'$ W. of cor. Pits impracticable.
- Thence N. 45° E.
- Set a pine post, 48x6x6 ins., with marked stone, 30 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.W., \angle U I R on S.E., and P L on N.W. faces, from which; An aspen, 12 ins. diam., bears S. 58° E., 75 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T.
- An aspen, 14 ins. diam., bears S. 80° W., 177 lks. dist. marked \angle P L $\frac{1}{2}$ M B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 45° W. of cor. Pits impracticable.
- Thence N. $24^{\circ} 30'$ E.
- Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 133 mile cor., marked 133 M on S., U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $24^{\circ} 30'$ W. of cor. Pits impracticable.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.
- October 3, 1903, at this cor., I set off $3^{\circ} 42'$ S. on the decl. arc, and at 11 h., 50'm., a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $40^{\circ} 19'$ N.
-
- N. $24^{\circ} 30'$ E. on the 134th mile.
- Ascend along top of ridge, through scattering pines and aspens.
- Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W., faces, from which;

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	An aspen, 10 ins. diam., bears S. 84° E., 75 lks. dist., marked \angle U I R B T.
	An aspen, 12 ins. diam., bears S. 82° W., 63 lks. dist., marked \angle P L B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $24^{\circ} 30'$ W. of cor. Pits impracticable.
	Thence N. $38^{\circ} 45'$ E.
27.20	Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for $\frac{1}{8}$ mile and angle cor., marked $\frac{1}{2}$ M on S.W., \angle U I R on S.E., and P L on N.W. faces, from which;
	An aspen, 16 ins. diam., bears S. 28° E., 50 lks. dist., marked \angle P L $\frac{1}{2}$ M B T.
	An aspen, 14 ins. diam., bears S. 88° W., 62 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T.
	No other bearing trees available, therefore, I dig pits, 36x36x12 ins., N. $2^{\circ} 40'$ E., and S. $2^{\circ} 40'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, 2 ft. high, S. $38^{\circ} 45'$ W. of cor.
	Thence S. $33^{\circ} 30'$ E.
15.20	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S.W., and P L on N.E. faces, from which;
	An aspen, 16 ins. diam., bears S. 12° E., 45 lks. dist., marked \angle U I R B T.
	An aspen, 14 ins. diam., bears N. 16° E., 60 lks. dist., marked \angle P L B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $33^{\circ} 30'$ W. of cor. Pits impracticable.
	Thence S. $53^{\circ} 30'$ E.
24.80	Set a pine post, 36x6x6 ins.; 24 ins. in the ground, for 134 mile cor., marked 134 M on N.W., U I R on N.E., and P L on S.W. faces, from which;

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CHAINS

- A pine, 12 ins. diam., bears S. 22° W., 23 lks. dist., marked U I R 134 M B T.
- An aspen, 16 ins. diam., bears S. 44° E., 23 lks. dist., marked U I R 134 M B T.
- An aspen, 12 ins. diam., bears N. 62° E., 102 lks. dist., marked P L 134 M B T.
- An aspen, 16 ins. diam., bears N. 38° W., 27 lks. dist., marked P L 134 M B T.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.
- S. $53^{\circ} 30'$ E. on the 135th mile.
- Descend along top of ridge, through scattering pines and aspens.
- 40.00 Set a pine post, 36x10x10 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on N.W., \angle U I R on S.W., and P L on N.E. faces, from which;
- An aspen, 8 ins. diam., bears S. 45° W., 4 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T.
- An aspen, 10 ins. diam., bears N. $.5^{\circ}$ W., 21 lks. dist. marked \angle P L $\frac{1}{2}$ M B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $53^{\circ} 30'$ W. of cor. Pits impracticable.
- Thence S. 10° E.
- 25.70 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, from which;
- An aspen, 16 ins. diam., bears N. 60° W., 44 lks. dist., marked \angle U I R B T.
- An aspen, 10 ins. diam., bears N. 32° E., 44 lks. dist.

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CHAINs	<p>marked \angle P L B T.</p> <p>No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. 10° W. of cor. Pits impracticable.</p> <p>Thence N. $70^\circ 45'$ E.</p>
14.30	<p>Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for 135 mile cor., marked 135 M on E., U I R on S., and P L on N. faces, from which;</p> <p>An aspen, 14 ins. diam., bears N. 10° W., 125 lks. dist., marked P L 135 M B T.</p> <p>An aspen, 10 ins. diam., bears N. 32° W., 114 lks. dist., marked P L 135 M B T.</p> <p>No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 70° W. of cor. Pits impracticable.</p> <p>Land mountainous.</p> <p>Soil rocky and stony, 4th rate.</p> <p>Timber, scattering pines and aspens, 80.00 chs.</p> <p>Mountainous land, 80.00 chs.</p>
	October 3, 1903.
	<hr/> <p>N. $70^\circ 45'$ E. on the 136th mile.</p> <p>Descend along top of ridge, through scattering pines and aspens.</p>
10.00	Wagon road leading down Daniel's Canyon, bears N. and S.
23.50	Set a pine post, 36x5x5 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N., and P L on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $70^\circ 45'$ W. of cor.
	Thence N. $81^\circ 15'$ E.
14.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S., and P L on N. faces, from which;
	An aspen, 14 ins. diam., bears S. 48° E., 27 lks. dist., marked \angle U I R B T.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- An aspen, 8 ins. diam., bears N. 54° W., 95 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $81^{\circ} 15'$ W. of cor. Pits impracticable.
- Thence S. 77° E.
- 2.25 Wagon Road, bears N. and S.
- 2.50 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on W., U I R on S., and P L on N. faces, from which;
- An aspen, 14 ins. diam., bears S. 72° W., 35 lks. dist., marked U I R $\frac{1}{2}$ M B T.
- An aspen, 14 ins. diam., bears N. 4° E., 34 lks. dist., marked P L $\frac{1}{2}$ M B T.
- 22.50 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and P L on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 77° W. of cor. Pits impracticable.
- Thence N. $81^{\circ} 15'$ E.
- 20.00 Set a pine post, 36x6x6 ins., 24 ins. in the ground, for 136 mile and angle cor., marked 136 M on W., \angle U I R on S. and P L on N. faces, from which;
- An aspen, 8 ins. diam., bears S. 50° W., 24 lks. dist., marked \angle U I R 136 M B T.
- An aspen, 16 ins. diam., bears S. 38° E., 27 lks. dist., marked \angle U I R 136 M B T.
- An aspen, 10 ins. diam., bears N. 34° E., 12 lks. dist., marked \angle P L 136 M B T.
- An aspen, 14 ins. diam., bears West 36 lks. dist., marked P L 136 M B T.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	October 4, 1903, at 9 h., 00 m., a.m., l.m.t., I set off 40° 18' N. on the lat. arc, 4° 02' S. on the decl. arc, and determine a meridian with the solar at the 136 mile cor.
	Thence I run
	N. 86° 45' E., on the 137th mile.
13.00	Set a sandstone, 36x28x20 ins., 27 ins. in the ground, for angle cor., marked \angle U I R on S., and P L on N. faces, from which;
	An aspen, 8 ins. diam., bears S. 10° E., 36 lks. dist., marked \angle U I R B T.
	An aspen, 7 ins. diam., bears N. 12° W., 45 lks. dist., marked \angle P L B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 86° 45' W. of cor. Pits impracticable.
	Thence S. 66° 45' E.
1.00	Canal running from Strawberry to Daniels Creek, bears N.W. and S.E.
18.00	Wagon Road bears N.W. and S.E.
23.40	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 66. 45' W. of cor. Pits impracticable.
	Thence N. 12° 15' E.
3.60	Set a pine post, 36x5x5 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces, from which;
	An aspen, 10 ins. diam., bears S. 10° E., 40 lks. dist., marked U I R $\frac{1}{2}$ M B T.
	An aspen, 8 ins. diam., bears N. 86° W., 42 lks. dist., marked P L $\frac{1}{2}$ M B T.
	No other bearing trees available, therefore, I dig pits, 36x36x12 ins., N. 77° 45' W., and S. 77° 45' E. of post,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $12^{\circ} 15'$ W. of cor.
19.60	Top of knoll, descend.
20.60	Set a sandstone, 24x16x 6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $12^{\circ} 15'$ W. of cor. Pits impracticable. Thence N. $7^{\circ} 45'$ W.
14.60	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and P L on N.W. faces, from which; A pine, 10 ins. diam., bears S. 30° E., 195 lks. dist., marked \angle U I R B T. A pine, 12 ins. diam., bears S. 58° W., 123 lks. dist., marked \angle P L B T. No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $7^{\circ} 45'$ E. of cor. Pits impracticable. Thence S. 84° E.
8.40	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 137 mile cor., marked 137 M on W., U I R on S., and P L on N. faces, and raise a mound of stone, 3 ft. base 2 ft. high, N. 84° W. of cor. Pits impracticable. Land mountainous. Soil rocky and stony, 4th rate. Timber, scattering pines and aspens, 80.00 chs. Mountainous land, 80.00 chs. October 4, 1903, at this cor., I set off $40^{\circ} 06'$ S. on the decl. arc, and at 11 h., 44 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 19'$ N.

	S. 84° E. on the 138th mile.
	Descend along top of ridge, through scattering pines and

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	aspens.
6.40	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S., and P L on N. faces; dig pits, 36x36x12 ins., N. 36° W., and S. 36° E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 84° W. of cor. Thence N. 12° E.
13.60	Bottom of descent, ascend.
26.00	Top of spur, projects S.E., descend. Set a sandstone, 26x18x6 ins., 19 ins. in the ground, for angle cor., marked \angle U. I R on E., and P L on W. faces, from which; A pine, 14 ins. diam., bears N. 44° E., 95 lks. dist., marked \angle U I R B T. A pine, 30 ins. diam., bears S. 22° W., 74 lks. dist., marked \angle P L B T. No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. 12° W. of cor. Pits impracticable. Thence N. $53^\circ 45'$ W.
7.60	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{4}$ mile cor., marked $\frac{1}{4} M$ on S.E., U I R on N.E., and P L on S.W. faces, from which; A pine, 8 ins. diam., bears S. 82° E., 86 lks. dist., marked U I R $\frac{1}{4} M$ B T. An aspen, 10 ins. diam., bears S. 26° E., 130 lks. dist., marked P L $\frac{1}{4} M$ B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $53^\circ 45'$ E. of cor. Pits impracticable.
20.10	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S. faces, from which; An aspen, 8 ins. diam., bears N. 32° E., 42 lks. dist.,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- marked \angle U I R B T.
 An aspen, 14 ins. diam., bears S. 54° W., 125 lks. dist., marked \angle P L B T.
 No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $53^{\circ} 45'$ E. of cor. Pits impracticable.
 Thence N. 6° W.
- 19.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which:
 An aspen, 8 ins. diam., bears N. 6° E., 159 lks. dist., marked \angle U I R B T.
 A pine, 8 ins. diam., bears N. 72° W., 25 lks. dist., marked \angle P L B T.
 No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 6° E. of cor. Pits impracticable.
 Thence N. $43^{\circ} 45'$ W.
- 8.50 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 138 mile and angle cor., marked 138 M on S.E., \angle U I R on N.E., and P L on S.W. faces, from which:
 An aspen, 19 ins. diam., bears S. 60° W., 87 lks. dist., marked \angle P L 138 M B T.
 An aspen, 12 ins. diam., bears S. 38° W., 102 lks. dist., marked \angle P L 138 M B T.
 No other bearing trees available, therefore I dig pits, 36x36x12 ins., N. $61^{\circ} 45'$ E., and S. $61^{\circ} 45'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base 2 $\frac{1}{2}$ ft. high, S. $43^{\circ} 45'$ E. of cor.
 Land mountainous.
 Soil, sandy and clay, 4th rate.
 Timber, scattering pines and aspens, 80.00 chs.
 Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	N. $12^{\circ} 45'$ W., on the 139th mile. Descend along top of ridge, through scattering pines and aspens.
13.00	Head of draw, drains S.E., ascend.
25.00	Top of knoll, descend.
40.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M. on S., \angle U I R on E., and P L on W. faces, from which; A pine, 12 ins. diam., bears S. 60° E., 105 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T. An aspen, 14 ins. diam., bears N. 22° E., 36 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T. No other suitable bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 12° $45'$ E. of cor. Pits impracticable. Thence N. $17^{\circ} 45'$ E.
26.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which; An aspen, 10 ins. diam., bears S. 84° E., 193 lks. dist., marked \angle U I R B T. An aspen, 14 ins. diam., bears S. 38° W., 42 lks. dist., marked \angle P L B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $17^{\circ} 45'$ W. of cor." Pits impracticable. Thence N. 37° E.
14.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 139 mile cor., marked 139 M on S.W., U I R on S.E., and P L on N.W. faces; dig pits, 36x36x12 ins., N. 53° W., and S. 53° E. of cor., 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 37° W. of cor. Land mountainous.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Soil, sandy and clay, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

October 4, 1903.

N. 37° E. on the 140th mile.

Ascend along top of ridge, through scattering pines and aspens.

40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.W., \angle U I R on S.E., and P L on N.W. faces, from which; An aspen, 12 ins. diam., bears S. 70° E., 05 lks. dist., marked $\frac{1}{2}$ M \angle U I R B T.

An aspen, 14 ins. diam., bears N. 60° W., 48 lks. dist., marked $\frac{1}{2}$ M \angle P L B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 37° W. of cor. Pits impracticable.

Thence N. $46^{\circ} 30'$ E.

4.60 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S.E., and P L on N.W. faces, from which;

A pine, 10 ins. diam., bears N. 88° E., 55 lks. dist., marked \angle U I R B T.

A pine, 18 ins. diam., bears S. 60° W., 47 lks. dist., marked \angle U I R B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $46^{\circ} 30'$ W. of cor. Pits impracticable.

Thence N. $26^{\circ} 15'$ W.

1.00 Top of ascent, descend.

12.40 Heber Canal and Tunnel flows E. and W. in bottom of saddle ascend.

21.50 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E. and

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CHAINS	
	P L on W. faces, from which;
	An aspen, 8 ins. diam., bears N. 58° E., 31 lks. dist., marked \angle U I R B T.
	An aspen, 14 ins. diam., bears S. 38° W., 42 lks. dist., marked \angle P L B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $26^{\circ} 15'$ E. of cor. Pits impracticable.
	Thence N. $20^{\circ} 30'$ E.
13.90	Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for 140 mile cor., marked 140 M on S., U T R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $20^{\circ} 30'$ W. of cor. Pits impracticable. Land mountainous. Soil, sandy and clay, 4th rate. Timber, scattering pines and aspens, 80.00 chs. Mountainous land, 80.00 chs.

	October 5, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 21'$ N. on the lat. arc, $4^{\circ} 26'$ S. on the decl. arc, and determine a meridian with the solar at the 140 mile cor.,
	Thence I run N. $20^{\circ} 30'$ E. on the 141st mile. Ascend along top of ridge, through scattering pines and aspens.
3.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $20^{\circ} 30'$ W. of cor. Pits impracticable. Thence N. $37^{\circ} 45'$ W.
23.30	Top of ascent, descend. Set a sandstone, 24x18x8 ins., 18 ins. in the ground,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	for angle cor., marked \angle U.I.R. on E., and P.L. on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $37^{\circ} 45'$ E. of cor. Pits impracticable. Thence N. 53° E.
10.00	Bottom of descent, ascend.
13.70	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.W., U.I.R. on S.E., and P.L. on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 53° W. of cor. Pits impracticable.
15.70	Top of ascent, descend.
20.70	Head of draw, drains S., ascend.
27.70	Top of spur, projects S.E., descend. Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U.I.R. on S.E., and P.L. on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 53° W. of cor. Pits impracticable. Thence N. 13° E.
16.60	Top of spur, projects S. E., descend. Set a sandstone, 24x18x7 ins., 18 ins. in the ground, for angle cor., marked \angle U.I.R. on E., and P.L. on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 13° W. of cor. Pits impracticable. Thence N. $17^{\circ} 15'$ W.
4.50	Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U.I.R. on E., and P.L. on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $17^{\circ} 15'$ E. of cor. Pits impracticable. Thence N. $26^{\circ} 30'$ W.
1.00	Top of ascent, descend.
4.90	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 141 mile cor., marked 141 M on S.E., U.I.R. on N.E., and P.L. on S.W. faces, from which

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CHAINS

An aspen, 12 ins. diam., bears N. 80° E., 36 lks. dist., marked U I R 141 M B T.

An aspen, 10 ins. diam., bears N. 20° W., 34 lks. dist., marked U I R 141 M B T.

An aspen, 8 ins. diam., bears N. 80° W., 13 lks. dist., marked P L 141 M B T.

A pine, 14 ins. diam., bears S. 20° E., 107 lks. dist., marked P L 141 M B T.

Land mountainous.

Soil, rocky and stony, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

October 5, 1903, at this cor., I set off $4^{\circ} 29'$ S. on the decl. arc, and at 12 h., 00 m., M., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 22'$ N.

N. $26^{\circ} 30'$ W., on the 142d mile.

Descend along top of ridge, through scattering pine and aspen timber.

1.00 Bottom of saddle in ridge, ascend.

10.00 Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, from which;

An aspen, 10 ins. diam., bears S. 80° E., 23 lks. dist., marked \angle U I R B T.

An aspen, 10 ins. diam., bears S. 82° W., 42 lks. dist., marked \angle P L B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $26^{\circ} 30'$ E. of cor. Pits impracticable.

Thence N. 14° E.,

15.60 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- S. 14° W. of cor. Pits impracticable.
- Thence N. $37^{\circ} 15'$ W.
- 4.40 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on N.E., and P L on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $37^{\circ} 15'$ E. of cor. Pits impracticable.
- Thence N. $6^{\circ} 45'$ W.
- 10.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. $83^{\circ} 15'$ E., and S. $83^{\circ} 15'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $6^{\circ} 45'$ E. of cor.
- 29.00 Top of knoll, descend.
- Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $17^{\circ} 15'$ E. of cor. Pits impracticable.
- Thence N. $17^{\circ} 15'$ W.
- 8.30 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $17^{\circ} 15'$ E. of cor. Pits impracticable.
- Thence N. $10^{\circ} 45'$ E.
- 12.70 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 142 mile cor., marked 142 M on S., U I R on E., and P L on W. faces; dig pits, 36x36x12 ins., N. $79^{\circ} 15'$ W., and S. $79^{\circ} 15'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $10^{\circ} 45'$ W. of cor.
- Land mountainous.
- Soil, sandy and clay, 4th rate.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Timber, scattering pines and aspens, 80.00 chs.
	Mountainous land, 80.00 chs.

	N. $10^{\circ} 45'$ E. on the 143d mile.
	Descend along top of ridge, through scattering pines and aspens.
2.00	Head of draw, drains S.E., ascend.
36.50	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;
	An aspen, 10 ins. diam., bears N. 4° W., 92 lks. dist., marked \angle P L B T.
	An aspen, 14 ins. diam., bears N. 56° W., 155 lks. dist., marked \angle P L B T.
	No other bearing trees available, therefore, I dig pits, 36x36x12 ins., N. $82^{\circ} 30'$ E., and S. $82^{\circ} 30'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $10^{\circ} 45'$ W. of cor.
	Thence N. $25^{\circ} 45'$ W.
3.50	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S., \angle U I R on E., and P L on W. faces, from which;
	An aspen, 8 ins. diam., bears S. 60° E., 7 lks. dist., marked \angle U I R $\frac{1}{2}$ M B T.
	An aspen, 10 ins. diam., bears N. 54° W., 26 lks. dist., marked \angle P L $\frac{1}{2}$ M B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $25^{\circ} 45'$ E. of cor. Pits impracticable.
	Thence N. $2^{\circ} 00'$ W.
14.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on the E., and P L on W. faces, from which;
	An aspen, 8 ins. diam., bears S. 50° E., 14 lks. dist.,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- marked \angle U I R B T.
- An aspen, 8 ins. diam., bears N. 70° W., 6 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 2° E. of cor. Pits impracticable.
- Thence N. 30° $30'$ E.
- Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and P L on N.W. faces, from which;
- An aspen, 10 ins. diam., bears S. 80° E., 24 lks. dist., marked \angle U I R B T.
- An aspen, 12 ins. diam., bears S. 52° W., 25 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 30° $30'$ E. of cor. Pits impracticable.
- Thence N. 4° W.
- Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;
- An aspen, 12 ins. diam., bears S. 60° E., 60 lks. dist., marked \angle U I R B T.
- An aspen, 12 ins. diam., bears N. 10° W., 36 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 4° E. of cor. Pits impracticable.
- Thence N. 35° $45'$ E.
- Set a pine post, 36x6x6 ins., 24 ins. in the ground, for 143 mile and angle cor., marked 143 M on S.W., \angle U I R on S.E., and P L on N.W. faces, from which;
- An aspen, 10 ins. diam., bears S. 40° E., 4 lks. dist., marked \angle U I R 143 M B T.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

An aspen, 10 ins. diam., bears S. 84° E., 13 lks. dist., marked \angle U I R 143 M B T.

An aspen, 10 ins. diam., bears S. 70° W., 72 lks. dist., marked \angle P L 143 M B T.

An aspen, 14 ins. diam., bears N. 60° W., 28 lks. dist., marked \angle P L 143 M B T.

Land mountainous.

Soil, rocky and stony, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

October 5, 1903.

N. $7^{\circ} 45'$ E. on the 144th mile.

Ascend along top of ridge, through scattering pines and aspens.

15.70 Angle cor. falls on a rock in place, 10x6x6 ft. above ground. At the exact cor. point, I cut a cross (X), marked \angle U I R E., and P L W. of cross (X), from which; An aspen, 10 ins. diam., bears S. 34° E., 41 lks. dist., marked \angle U I R B T.

An aspen, 10 ins. diam., bears S. 48° W., 16 lks. dist., marked \angle P L B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $7^{\circ} 45'$ W. of cor.; Pits impracticable.

Thence N. $20^{\circ} 30'$ W.

16.30 Set a sandstone, 36x18x12 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;

A pine, 15 ins. diam., bears N. 14° W., 28 lks. dist., marked \angle P L B T.

A pine, 12 ins. diam., bears S. 88° E., 62 lks. dist., marked \angle U I R B T.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $20^{\circ} 30'$ E. of cor. Pits impracticable.
- Thence N. $19^{\circ} 45'$ E.
- 8.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces, from which; A pine, 16 ins. diam., bears S. 70° E., 21 lks. dist., marked U I R $\frac{1}{2}$ M B T.
An aspen, 12 ins. diam., bears N. 40° W., 26 lks. dist., marked P L $\frac{1}{2}$ M B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $19^{\circ} 45'$ W. of cor. Pits impracticable.
- 48.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 144 mile cor., marked 144 M on S., U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $19^{\circ} 45'$ W. of cor. Pits impracticable.
Land mountainous.
Soil, rocky and stony, 4th rate.
Timber, scattering pines and aspens, 80.00 chs.
Mountainous land, 80.00 chs.
October 6, 1903, at 9 h., 00 m., a.m., l.m.t., sky overcast, observation for meridian impossible.
-
- N. $19^{\circ} 45'$ E., on the 145th mile..
Ascend along top of ridge, through scattering pines and aspens.
- 0.50 Top of ascent, descend.
- .3.00 Bottom of descent, ascend.
- 34.40 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;
A pine, 20 ins. diam., bears East, 195 lks. dist.,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	marked \angle U I R B T.
	A pine, 16 ins. diam., bears N. 58° W., 97 lks. dist., marked \angle U I R B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $19^\circ 45'$ W. of cor. Pits impracticable.
	Thence N. $32^\circ 15'$ W.
5.60	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces, from which;
	An aspen, 16 ins. diam., bears S. 84° E., 80 lks. dist., marked U I R $\frac{1}{2}$ M B T.
	A pine, 16 ins. diam., bears S. 12° E., 85 lks. dist., marked U I R $\frac{1}{2}$ M B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $32^\circ 15'$ E. of cor. Pits impracticable.
31.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;
	An aspen, 10 ins. diam., bears S. 84° E., 65 lks. dist., marked \angle U I R B T.
	An aspen, 14 ins. diam., bears S. 8° E., 125 lks. dist., marked \angle U I R B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $32^\circ 15'$ E. of cor. Pits impracticable.
	Thence N. $0^\circ 45'$ W.
14.60	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 145 mile and angle cor., marked 145 M on S., \angle U I R on E., and P L on W. faces, from which;
	An aspen, 14 ins. diam., bears S. 60° E., 187 lks. dist., marked \angle U I R 145 M B T.
	A pine, 12 ins. diam., bears N. 74° E., 135 lks. dist.,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- marked \angle U I R 145 M B T.
- An aspen, 16 ins. diam., bears N. 78° W., 50 lks. dist., marked \angle P L 145 M B T.
- An aspen, 14 ins. diam., bears S. 54° W., 78 lks. dist., marked \angle P L 145 M B T.
- Land mountainous.
- Soil rocky and sandy, 4th rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.
- October 6, 1903, at this cor., I set off $4^\circ 52'$ S. on the decl. arc, and at 11 h., 48 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat is $40^\circ 25'$ N.
-
- N. 34° E. on the 146th mile.
- Descend along top of ridge, through scattering pines and aspens.
- 21.00 Bottom of descent, ascend.
- 28.40 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, from which;
- A pine, 20 ins. diam., bears East 195 lks. dist., marked \angle U I R B T.
- A pine, 16 ins. diam., bears N. 58° W., 77 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 34° W. of cor. Pits impracticable.
- Thence N. $67^\circ 30'$ E.
- 11.60 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{4}$ mile cor., marked $\frac{1}{4}$ M on S.W., U I R on S.E., and P L on N.W. faces, from which;
- An aspen, 16 ins. diam., bears S. 42° W., 99 lks. dist., marked $\frac{1}{4}$ M P L B T.
- An aspen, 10 ins. diam., bears N. 56° W., 90 lks. dist.,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- marked $\frac{1}{2}M$ P L B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $67^{\circ} 30'$ W. of cor. Pits impracticable.
- 14.60 Wagon Road, bears N.E. and S.W.
- 21.60 Top of knoll, descend.
- 46.60 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S.E., and P L on N.W., faces, from which;
- An aspen, 20 ins. diam., bears S. 78° E., 26 lks. dist., marked \angle U I R B T.
- An aspen, 14 ins. diam., bears N. 40° W., 20 lks. dist., marked \angle P L B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $67^{\circ} 30'$ W. of cor. Pits impracticable.
- Thence N. 5° E.
- 5.00 Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for 146 mile land angle cor., marked 146 M on S., \angle U I R on E., and P L on W. faces, from which;
- An aspen, 12 ins. diam., bears S. 70° E., 65 lks. dist., marked \angle U I R 146 M B T.
- An aspen, 10 ins. diam., bears N. 58° E., 74 lks. dist., marked \angle U I R 146 M B T.
- A pine, 14 ins. diam., bears N. 10° W., 54 lks. dist., marked \angle 146 M P L B T.
- A pine, 16 ins. diam., bears S. 88° W., 15 lks. dist., marked \angle 146 M R L B T.
- Land mountainous.
- Soil sandy and clay, 4th rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous land, 80.00 chs.

October 6, 1903, at 3 h., 00 m., p.m., l.m.t., I set off

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION.

CHAINS

- 40° 26' N. on the lat. arc; 4° 55' S. on the decl. arc, and determine a meridian with the solar, at the 146 mile cor.
- Thence I run
N. 25° 30' E. on the 147th mile.
Ascend along top of ridge, through scattering pines and aspens.
- 20:60 Top of bald knoll, descend.
Angle cor. falls on a rock in place, 6x16x6 ft. above ground, at the exact cor. point, I cut a cross (X), marked \angle U I R on S.E., and P L on N.W. of cross (X), and raise a mound of stone, 3 ft. base, 2 ft. high, S. 25° 30' W. of cor. Pits impracticable.
Thence S. 43° 45' E.
- 19:40 Set a sandstone, 24x18x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.W., U I R on S.W., and P L on N.E. faces, from which;
An aspen, 12 ins. diam., bears S. 40° W., 162 lks. dist., marked U I R $\frac{1}{2}$ M B T.
A pine, 10 ins. diam., bears N. 58° E., 95 lks. dist., marked P L $\frac{1}{2}$ M B T.
No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, N. 43° 45' W. of cor. Pits impracticable.
- 28.60 Set a sandstone, 24x18x9 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.W., and P L on N.E. faces, from which;
An aspen, 10 ins. diam., bears N. 8° W., 77 lks. dist., marked P L B T.
A pine, 12 ins. diam., bears S. 55° W., 100 lks. dist., marked \angle U I R B T.
No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base 2 ft. high, N. 43° 45' W. of cor. Pits impracticable.

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SOUTH AND WEST BOUNDARY, UINTAH INDIAN RESERVATION

CHAINS

Thence S. $66^{\circ} 15'$ E.

27.80 Head of draw, drains S., ascend.

30.80 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 147 mile cor., marked 147 M on N.W., U I R on S.W., and P L on N.E. faces, from which; An aspen, 8 ins. diam., bears S. 40° W., 30 lks. dist., marked U I R 147 M B T.

An aspen, 14 ins. diam., bears S. 60° E., 56 lks. dist., marked U I R 147 M B T.

A pine, 18 ins. diam., bears N. 16° E., 152 lks. dist., marked P L 147 M B T.

A pine, 12 ins. diam., bears N. 40° W., 245 lks. dist., marked P L 147 M B T.

Land mountainous.

Soil, rocky and sandy, 4th rate.

Timber, scattering pines and aspens; 80.00 chs.

Mountainous land, 80.00 chs.

October 6, 1903.

S. $66^{\circ} 15'$ E. on the 148th mile.

Ascend along top of ridge, through scattering pines and aspens.

19.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.W., and P L on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high N. $66^{\circ} 15'$ W. of cor. Pits impracticable.

Thence S. $37^{\circ} 30'$ E.

8.90 Intersect the South West Cor. of the Uintah Forest Reserve, from which point the S.E. cor. of T 4 S, R 6 E of the Salt Lake Base and Meridian, which is a gray sandstone 18x14x12 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General, bears N. 59.83 chs. dist.

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SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 16.00 Set a sandstone, 24x18x10 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.W., and U F R on N.E., faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $37^{\circ} 30'$ W. of cor. Pits impracticable. S. 88° E.
- 5.00 Set a sandstone, 24x18x10 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on W., U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 88° W. of cor. Pits impracticable. Thence S. 57° E.
- 15.00 Set a sandstone, 24x17x11 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 57° W. of cor. Thence N. $81^{\circ} 45'$ E.
- 1.00 Top of ascent, descend.
- 11.00 Head of draw, drains S., ascend.
- 25.00 Set a sandstone, 24x16x8 ins., 18 ins. in the ground, for 148 mile cor., marked 148 M on W., U I R on S., and U F R on N. faces; dig pits, 36x36x12 ins., N. $8^{\circ} 15'$ W. and S. $8^{\circ} 15'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $81^{\circ} 45'$ W. of corner.
Land mountainous.
Soil, rocky and stony, 4th rate.
Timber, scattering pines and aspens, 80.00 chs.
Mountainous land, 80.00 chs.

October 7, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 25'$ N. on the lat. arc, and $5^{\circ} 12'$ S. on the decl. arc, and determine a meridian with the solar at the 148 mile cor.

Thence I run

N. $81^{\circ} 45'$ E. on the 149th mile.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 15.20 Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $81^{\circ} 45'$ W. of cor. Pits impracticable. Thence S. $60^{\circ} 30'$ E.
- 1.80 Top of ascent, descend.
- 10.00 Head of draw, drains S.E., ascend.
- 24.80 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.W., U I R on S.W., and U F R on N.E. faces; dig pits, 36x36x12 ins., N. $29^{\circ} 30'$ E., and S. $29^{\circ} 30'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $60^{\circ} 30'$ W. of corner.
- 31.70 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.W., and U F R on N.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $60^{\circ} 30'$ W. of cor. Pits impracticable. Thence N. $52^{\circ} 30'$ E.
- 22.10 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $52^{\circ} 30'$ W. of cor. Pits impracticable. Thence N. $20^{\circ} 15'$ E.
- 11.00 Set a sandstone, 24x18x12 ins., 18 ins. in the ground, for 149 mile cor., marked 149 M on S., U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $20^{\circ} 15'$ W. of cor. Pits impracticable. Land mountainous.
Soil, rocky and stony, 4th rate.
Timber, scattering pines and aspens, 80.00 chs.
Mountainous land, 80.00 chs.
October 7, 1903, at this cor., I set off $5^{\circ} 15'$ S. on the decl. arc, and at 11 h., 48 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 25'$ N.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	N. $20^{\circ} 15'$ E. on the 150th mile.
	Ascend along top of ridge, through scattering pine and aspen timbers.
1.20	Wagon road, bears N. and S.
13.60	Set a sandstone, 24x19x12 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $20^{\circ} 15'$ W. of cor. Pits impracticable.
	Thence N. $66^{\circ} 45'$ E.
26.40	Set a sandstone, 24x18x12 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2} M$ on S.W., \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $66^{\circ} 45'$ W. of cor. Pits impracticable.
	Thence N. $30^{\circ} 30'$ W.
40.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 150 mile and angle cor., marked 150 M on S.E., \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $30^{\circ} 30'$ E. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky and stony, 4th rate.
	Timber, scattering pines and aspens, 80.00 chs.
	Mountainous land, 80.00 chs.

	N. $4^{\circ} 45'$ W. on the 151st mile.
	Ascend along top of ridge, through scattering pines and aspens.
0.20	Top of ascent, descend.
4.00	Bottom of descent, ascend.
29.90	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, S. $4^{\circ} 45'$ E. of cor. Pits impracticable.

SOUTH AND WEST BOUNDARY, UINTAH INDIAN RESERVATION

CHAINS

Thence N. 29° E.

- 4.80 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 29° W. of cor. Pits impracticable.

Thence N. $16^{\circ} 30'$ W.

- 5.30 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $16^{\circ} 30'$ E. of cor. Pits impracticable.

26.00 Leave scattering pine and aspen timber, bears E. and W.

36.00 Top of spur, projects E., Descend.

- 45.30 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 151 mile and angle cor., marked 151 M on S., \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $16^{\circ} 30'$ E. of cor. Pits impracticable.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, scattering pines and aspens, 66.00 chs.

Mountainous land, 80.00 chs.

S. $83^{\circ} 30'$ W. on the 152d mile.

Descend along top of ridge.

- 11.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N., and U F R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $83^{\circ} 30'$ E. of cor. Pits impracticable.

Thence N. $16^{\circ} 15'$ W.

- 19.30 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $16^{\circ} 15'$ E. of cor. Pits impracticable.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Thence N. $39^{\circ} 45'$ E.

- 9.70 Set a sandstone, 24x16x6 ins. 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2} M$ on S.W., U I R on S.E., and U F R on N.W. faces; dig pits, 36x36x12 ins., N. $50^{\circ} 15'$ W. and S. $50^{\circ} 15'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $39^{\circ} 45'$ W. of cor.

- 24.00 Set a pine post, 36x5x5 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $39^{\circ} 45'$ W. of cor.

Pits impracticable.

Thence N. 44° E.

- 25.70 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 152 mile and angle cor., marked 152 M on S.W., \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 44° W. of cor.

Pits impracticable.

Land mountainous.

Soil, rocky and stony, 4th rate.

No timber.

Mountainous land, 80.00 chs.

October 7, 1903.

October 8, 1903, at 9 h. 00 m., a.m., l.m.t., I set off $40^{\circ} 27'$ N. on the lat. arc; $5^{\circ} 35'$ S. on the decl. arc, and determine a meridian with the solar, at the 152 mile cor.

Thence I run,

N. $54^{\circ} 30'$ E. on the 153d mile.

Descend along top of ridge.

- 25.00 Angle cor. falls on a rock in place, 6x6x8 ft. above ground, at the exact cor. point I cut a cross (X), marked \angle U I R on S.E., and U F R on N.W. of cross (X),

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

*CHAINS	
	and raise a mound of stone, 3 ft. base, 2 ft. high, S. 54° 30' W. of cor. Pits impracticable.
	Thence N. 45° 30' E.
15.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.W., U I R on S.E., and U F R on N.W. faces; dig pits, 36x36x12 ins., N. 44° 30' W., and S. 44° 30' E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 45° 30' W. of cor.
27.10	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 45° 30' W. of cor. Pits impracticable.
	Thence N. 87° 30' E.
4.00	Bottom of saddle in ridge, ascend.
18.90	Set a sandstone, 24x18x8 ins.; 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 87° 30' W. of cor. Pits impracticable.
	Thence N. 44° 45' E.
7.00	Top of knoll, descend.
9.00	Set a sandstone, 24x8x8 ins., 18 ins. in the ground, for 153 mile and angle cor., marked 153 M on S.W., \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 44° 45' W. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky and stony, 4th rate.
	No timber.
	Mountainous land, 80.00 chs.
	October 8, 1903, at this cor., I set off 5° 38' S. on the decl. arc, and at 11 h., 48 m. a.m. I. m. t. observe the sun on the meridian, the resulting lat. is 40° 28' N.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	N. 55° E., on the 154th mile.
	Descend along top of ridge.
7.00	Bottom of saddle in ridge, ascend.
24.00	Top of knoll, descend.
30.00	Bottom of saddle in ridge, ascend.
40.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.W., U I R on S.E., and U F R on N.W. faces; dig pits, 36x36x12 ins., N. 35° W., and S. 35° E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 55° W. of cor.
67.00	Top of knoll, descend.
74.00	Bottom of saddle in ridge, ascend.
76.00	Top of knoll, descend.
78.00	Bottom of descent, ascend.
80.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 154 mile cor., marked 154 M on S.W., U I R on S.E., and P L on N.W. faces; dig pits, 36x36x12 ins., N. 35° W., and S. 35° E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 55° W. of cor.
	Land mountainous.
	Soil rocky and stony, 4th rate.
	No timber.
	Mountainous land, 80.00 chs.
<hr/>	
	N. 55° E. on the 155th mile.
	Ascend along top of ridge.
5.00	Enter scattering pine timber, bears N.W. and S.E.
10.00	Leave scattering pine timber, bears N.W. and S.E.
35.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 55° W. of cor.----Pits impracticable.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Thence S. 32° E.

5.00 Set a pine post, 36x8x8 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2} M$ on N.W., U I R on S.W., and U F R on N.E. faces; dig pits, 36x36x12 ins. N. 58° E., and S. 58° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 32° W. of cor.

9.00 Wagon road, bears N.E. and S.W.

10.00 Bottom of descent, ascend.

28.30 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 32° W. of cor.

Pits impracticable.

Thence N. 70° E.

8.70 Set a sandstone, 24x17x7 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 70° W. of cor. Pits impracticable.

Thence N. $25^{\circ} 45'$ E.

8.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 155 mile and angle cor., marked 155 M on S., \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $25^{\circ} 45'$ W. of cor. Pits impracticable.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, scattering pines, 5.00 chs.

Mountainous land, 80.00 chs.

October 8, 1903. •

N. 56° E. on the 156th mile.

Ascend along top of ridge.

17.80 Set a sandstone, 36x24x12 ins., 27 ins. in the ground,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 56° W. of cor. Pits impracticable.
22.20	Thence N. 76° E. Set a sandstone, 24x16x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on W., U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base 2 ft. high, S. 76° W. of cor. Pits impracticable.
46.10	Set a pine post, 36x5x5 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 76° W. of cor. Pits impracticable.
16.10	Thence N. $64^\circ 45'$ E. Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 156 mile and angle cor., marked 156 M on S.W., \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $64^\circ 45'$ W. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky and stony, 4th rate.
	No timber.
	Mountainous land, 80.00 chs.

	N. $45^\circ 30'$ E. on the 157th mile.
	Ascend along top of ridge.
14.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $45^\circ 30'$ W. of cor. Pits impracticable.
	Thence S. $84^\circ 45'$ E.
26.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on W., \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $84^\circ 45'$ W. of cor.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Pits impracticable.
	Thence S. 78° E.
20.40	Angle cor. falls on a rock in place, 10x10x6 ft. above ground. At the exact cor. point, I cut a cross (X), marked \angle U I R on S., and U F R on N. of cross (X), and raise a mound of stone, 3 ft. base, 2 ft. high, N. 78° W. of cor. Pits impracticable.
	Thence S. 56° E.
19.60	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 157 mile cor., marked 157 M on N.W., U I R on S.W., and U F R on N.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 56° W. of cor. Pits impracticable. Land mountainous. Soil rocky and stony, 4th rate. No timber. Mountainous land, 80.00 chs. October 9, 1903, at this cor., I set off 6° 01' S. on the decl. arc, and at 11 h., 48 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 40° 28' N.
	----- S. 56° E., on the 158th mile. Ascend along top of ridge.
5.00	Top of knoll, descend.
18.00	Head of draw, drains N.E., ascend.
25.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 56° W. of cor. Pits impracticable.
	Thence N.-41° 17' E.
3.00	Top of ascent, descend.
14.40	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 41° 17' W. of cor.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- Pits impracticable.
- Thence S. $89^{\circ} 07'$ E.
- 0.60 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on W., U I R on S., and U F R on N. faces; dig pits, 36x36x12 ins., N. $0^{\circ} 53'$ E., and S. $0^{\circ} 53'$ W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $89^{\circ} 07'$ W. of cor.
- 13.70 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $89^{\circ} 07'$ W. of cor.
- Pits impracticable.
- Thence N. $67^{\circ} 38'$ E.
- 18.20 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $67^{\circ} 38'$ W. of cor.
- Pits impracticable.
- Thence S. $80^{\circ} 30'$ E.
- 8.70 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 158 mile cor., marked 158 M on W., U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $80^{\circ} 30'$ W. of cor.
- Pits impracticable.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- No timber.
- Mountainous land, 80.00 chs.

October 9, 1903, at 3 h., 00 m., p.m., l.m.t., I set off $40^{\circ} 28'$ N. on the lat. arc, $6^{\circ} 04'$ S. on the decl. arc, and determine a meridian with the solar at the 158 mile cor.

Thence I run,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- S. $80^{\circ} 30'$ E. on the 159th mile.
 Descend along top of ridge.
- 19.80 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $80^{\circ} 30'$ W. of cor.
 Pits impracticable.
 Thence N. $82^{\circ} 21'$ E.
- 20.20 Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on W., \angle U I R on S., and U F R on N. faces; dig pits, 36x36x12 ins., N. $7^{\circ} 45'$ W., and S. $7^{\circ} 45'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $82^{\circ} 21'$ W. of cor.
 Thence N. $82^{\circ} 15'$ E.
- 10.00 Bottom of descent, ascend.
- 29.00 Set a pine post, 36x6x6 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $82^{\circ} 15'$ W. of cor. Pits impracticable.
 Thence N. $18^{\circ} 15'$ E.
- 11.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 159 mile cor., marked 159 M on S., U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $18^{\circ} 15'$ W. of cor. Pits impracticable.
 Land mountainous.
 Soil rocky and stony, 4th rate.
 No timber.
 Mountainous land, 80.00 chs.
- October 9, 1903.
-
- N. $18^{\circ} 15'$ E. on the 160th mile.
 Ascend along top of ridge.
- 2.00 Enter dense sage-brush undergrowth.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 10.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $18^{\circ} 15'$ W. of cor. Pits impracticable.
Thence N. 56° E.
- 15.00 Set a sandstone, 24x16x11 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 56° W. of cor. Pits impracticable.
Thence N. $73^{\circ} 45'$ E.
- 15.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M. on W., \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $73^{\circ} 45'$ W. of cor. Pits impracticable.
Thence N. $83^{\circ} 15'$ E.
- 40.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 160 mile cor., marked 160 M on W., U I R on S., and U F R on N. faces; dig pits, 36x36x12 ins., N. $6^{\circ} 45'$ W., and S. $6^{\circ} 45'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $83^{\circ} 15'$ W. of cor.
Land mountainous.
Soil rocky and stony, 4th rate.
No timber.
Dense Sage-brush undergrowth, 78.00 chs.
Mountainous land, 80.00 chs.

October 10, 1903, at 9 h., 00 m., a.m., l.m.t.; I set off $40^{\circ} 29'$ N. on the lat. arc; $6^{\circ} 21'$ S. on the decl. arc, and determine a meridian with the solar at the 160 mile cor.

Thence I run

N. $83^{\circ} 15'$ E. on the 161st mile.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Ascend along top of ridge, through dense sage-brush undergrowth.
15.00	Head of gulch, drains S., ascend.
40.00	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on W., \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $83^\circ 15'$ W. of cor. Pits impracticable. Thence N. $45^\circ 15'$ E.
11.60	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $45^\circ 15'$ W. of cor. Pits impracticable. Thence N. $64^\circ 45'$ E.
13.10	Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $64^\circ 45'$ W. of cor. Pits impracticable. Thence N. $78^\circ 15'$ E.
13.00	Bottom of descent, ascend.
15.30	Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for 161 mile cor., marked 161 M on W., U I R on S., and U F R on N. faces; dig pits, 36x36x12 ins., N. $11^\circ 45'$ W. and S. $11^\circ 45'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $78^\circ 15'$ W. of cor. Land mountainous. Soil rocky and stony, 4th rate. No timber. Dense sage-brush undergrowth, 80.00 chs. Mountainous land, 80.00 chs. October 10, 1903, at this cor., I set off $6^\circ 23'$ S. on the decl. arc, and at 11 h., 48 m., a.m., l.m.t., observe

SO UTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- the sun on the meridian, the resulting lat. is $40^{\circ} 29' N.$
-
- N. $78^{\circ} 15' E.$ on the 162d mile.
- Descend along top of ridge.
- 4.00 Saddle in ridge, bears N.W. and S.E.
- 10.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked $\angle U I R$ on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $78^{\circ} 15' W.$ of cor.
- Pits impracticable.
- Thence N. $19^{\circ} 15' W.$
- 27.00 Saddle in ridge, bears E. and W.
- 30.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2} M$ on S., $\angle U I R$ on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $19^{\circ} 15' E.$ of cor.
- Pits impracticable.
- Thence N. $8^{\circ} 30' E.$
- 22.00 Top of ascent, descend.
- 24.00 Bottom of descent, ascend.
- 38.00 Top of ascent, descend.
- 40.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 162 mile and angle cor., marked 162 M on S., $\angle U I R$ on E., and U F R on W. faces, and raise a mound of stone 3 ft. base, 2 ft. high, S. $8^{\circ} 30' W.$ of cor.
- Pits impracticable.
- Land mountainous.
- Soil rocky and sandy, 4th rate.
- No timber.
- Mountainous land, 80.00 chs.
-
- N. $40^{\circ} 45' E.$ on the 163d mile.
- Ascend along top of ridge.
- 10.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $40^\circ 45'$ W. of cor. Pits impracticable.
	Thence N. 70° E.
3.00	Top of knoll, descend.
4.90	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base 2 ft. high, S. 70° W. of cor. Pits impracticable.
	Thence N. $83^\circ 45'$ E.
15.00	Bottom of descent, ascend. Enter dense sage-brush undergrowth.
25.10	Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on W., U I R on S., and U F R on N. faces; dig pits, 36x36x12 ins., N. $6^\circ 15'$ W., and S. $6^\circ 15'$ E. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $83^\circ 45'$ W. of cor.
44.90	Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $83^\circ 45'$ W. of cor. Pits impracticable. Thence N. $50^\circ 15'$ E.
20.20	Set a sandstone, 36x18x6 ins., 27 ins. in the ground, for 163 mile cor., marked 163 M on S.W., U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $50^\circ 15'$ W. of cor. Pits impracticable. Land mountainous. Soil rocky and stony, 4th rate. No timber. Dense sage-brush undergrowth, 50.10 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION.

CHAI NS

Mountainous land, 80.00 chs.

October 10, 1903.

N. $50^{\circ} 15'$ E. on the 164th mile.

Ascend gradually along top of ridge, through dense sage-brush undergrowth.

10.00 Top of ascent, descend.

15.00 Bottom of descent, ascend.

28.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $50^{\circ} 15'$ W. of cor. Pits impracticable. Thence N. $81^{\circ} 15'$ E.

12.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on W., U I R on S., and U F R on N. faces; dig pits, 36x36x12 ins., N. $7^{\circ} 45'$ W., and S. $7^{\circ} 45'$ E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. $81^{\circ} 15'$ W. of cor..

17.00 Bottom of descent, ascend.

36.30 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $81^{\circ} 15'$ W. of cor. Pits impracticable. Thence S. 66° E.

10.70 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 66° W. of cor. Pits impracticable. Thence N. $70^{\circ} 15'$ E.

4.50 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $70^{\circ} 15'$ W. of cor.

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SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Pits impracticable.
	Thence N. $6^{\circ} 45'$ E.
0.50	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 164 mile cor., marked 164 M on S., U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $6^{\circ} 45'$ W. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky and stony, 4th rate.
	No timber.
	Dense sage-brush undergrowth, 80.00 chs.
	Mountainous land, 80.00 chs.

	October 11, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 30'$ N. on the lat. arc; $6^{\circ} 43'$ S. on the decl. arc, and determine a meridian with the solar at the 164 mile cor.
	Thence I run
	N. $6^{\circ} 45'$ E. on the 165th mile.
13.50	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $6^{\circ} 45'$ W. of cor. Pits impracticable.
	Thence N. 19° E.
6.50	Top of ascent, descend gradually.
18.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 19° W. of cor. Pits impracticable.
	Thence N. 5° W.
8.50	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and U F R on W. faces, and dig pits, 36x36x12 ins., N. 85° E., and S. 85° W., of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 5° E. of cor.

SOUTH AND WEST BOUNDARY, JINTAH INDIAN RESERVATION

CHAINS

- Pits impracticable.
- 21.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 5° E. of cor. Pits impracticable. Thence N. $9^\circ 45'$ E.
- 25.20 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $9^\circ 45'$ W. of cor. Pits impracticable. Thence N. $7^\circ 15'$ W.
- 2.30 Set a sandstone, 24x18x8 ins., -18 ins. in the ground, for 165 mile and angle cor., marked 165 M on S., \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $7^\circ 15'$ E. of cor. Pits impracticable.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- No timber.
- Dense sage-brush undergrowth, 80.00 chs.
- Mountainous land, 80.00 chs.
- October 11, 1903, at this cor., I set off $6^\circ 46'$ S. on the decl. arc, and at 11 h., 49 m., a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $40^\circ 31'$ N.
-
- N. $0^\circ 15'$ E. on the 166th mile.
- Ascend along top of ridge, through dense sage-brush undergrowth.
- 17.40 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $0^\circ 15'$ W. of cor. Pits impracticable. Thence N. $65^\circ 30'$ E.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 7.60 Bottom of saddle, ascend.
- 14.60 Set a sandstone, 28x20x10 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $65^{\circ} 30'$ W. of cor. Pits impracticable.
Thence S. 63° E.
- 8.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on W., U I R on S., and U F R on N. faces; dig pits, 36x36x12 ins., N. 27° E., and S. 27° W. of post, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. 63° W. of cor. Pits impracticable.
- 26.00 Top of ascent, descend.
- 27.10 Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 63° W. of cor. Pits impracticable.
Thence S. 84° E.
- 6.90 Bottom of saddle, ascend.
- 20.90 Set a sandstone, 24x18x9 ins., 18 ins. in the ground, for 166 mile cor., marked 166 M on W., U I R on S., and U F R on N. faces; dig pits, 36x36x12 ins., N. $6^{\circ} 00'$ E., and S. $6^{\circ} 00'$ W. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. $84^{\circ} 00'$ W. of cor.
Land mountainous.
Soil rocky and stony, 4th rate.
No timber.
Dense sage-brush undergrowth, 80.00 chs.
Mountainous land, 80.00 chs.
- S. $84^{\circ} 00'$ E., on the 167th mile.
Ascend gradually along top of ridge, through dense sage-brush undergrowth.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION.

CHAINS

- 7.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $84^{\circ} 00'$ W. of cor. Pits impracticable. Thence N. $4^{\circ} 45'$ W.
- 13.50 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $4^{\circ} 45'$ E. of cor. Pits impracticable. Thence N. $54^{\circ} 00'$ E.
- 10.50 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 54° W. of cor. Pits impracticable. Thence N. $78^{\circ} 30'$ E.
- 9.00 Set a sandstone, 28x16x6 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.W., U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $78^{\circ} 30'$ W. of cor. Pits impracticable. Pits impracticable.
- 21.80 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $78^{\circ} 30'$ W. of cor. Pits impracticable. Thence S. $82^{\circ} 30'$ E.
- 8.20 Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $82^{\circ} 30'$ W. of cor. Pits impracticable. Thence S. $53^{\circ} 30'$ E.
- 9.70 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.W., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $53^{\circ} 30'$ W. of cor. Pits impracticable.

SOUTH AND WEST BOUNDARY UNTAH INDIAN RESERVATION.

Chains	
	Thence S. $36^{\circ} 30'$ E.
9.30	Set a sandstone, 24x18x9 ins., 18 ins. in the ground, for 167 mile cor., marked 167 M on NW.; U I R on SW.; and U F R on NE. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. $36^{\circ} 30'$ W. of cor. Pits impracticable. Land, mountainous. Soil, rocky and stony; 4th rate. No timber. Dense sagebrush undergrowth, 80.00 chs. Mountainous land, 80.00 chs.
	October, 11, 1903.

	S. $36^{\circ} 30'$ E. on the 168th mile. Ascend gradually along top of ridge, through dense sagebrush undergrowth.
1.00	Top of ascent, descend.
13.00	Bottom of descent, ascend.
16.30	Set a sandstone, 28x18x6 ins., 21 ins. in the ground, for angle cor., marked < U I R on SW.; and U F R on NE. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. $36^{\circ} 30'$ W. of cor. Pits impracticable. Thence S. $83^{\circ} 30'$ E.
6.20	Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked < U I R on S.; and U F R on N. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. $83^{\circ} 30'$ W. of cor. Pits impracticable. Thence S. $55^{\circ} 45'$ E.
6.20	Set a sandstone, 28x19x7 ins., 21 ins. in the ground, for angle cor., marked < U I R on SW.; and U F R on NE. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. $55^{\circ} 45'$ W. of cor.

SOUTH AND WEST BOUNDARY UNTAH INDIAN RESERVATION.

Chains	
	Pits impracticable.
	Thence S. 33° E.
11.30	Set a sandstone, 24x17x7 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on NW.; U I R on SW.; and U F R on NE. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. 33° W. of cor.
	Pits impracticable.
26.60	Set a sandstone, 24x18x9 ins., 18 ins. in the ground, for angle cor., marked U I R on SW.; and U F R on NE. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. 33° W. of cor. Pits impracticable.
	Thence S. 46° E.
7.30	Set a sandstone, 18x15x6 ins., 12 ins. in the ground, for angle cor., marked U I R on SW. and U F R on NE. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. 46° W. of cor.
	Pits impracticable.
	Thence S. 7° 15' E.
8.90	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor. marked U I R on E.; and U F R on W. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. 7° 15' W. of cor. Pits impracticable.
	Thence S. 69° 15' E.
8.50	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for 168 mile cor., marked 168 M on NW.; and U I R on SW. and U F R on NE. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. 69° 15' W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, rocky and stony; 4th rate. No timber.
	Dense sagebrush undergrowth, 80.00 chs.
	Mountainous land, 80.00 chs.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

October 12, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 31'$ N. on the lat. arc; $7^{\circ} 06'$ S. on the decl. arc, and determine a meridian with the solar, at the 168 mile cor.

Thence I run

S. $69^{\circ} 15'$ E. on the 169th mile.

Ascend through sage-brush undergrowth, along top of ridge.

4.00 Enter dense pine timber.

19.90 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $69^{\circ} 15'$ W. of cor. Pits impracticable.

Thence N. $89^{\circ} 15'$ E.

17.10 Leave dense pine timber, bears N.E. and S.W.

20.10 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on W., \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $89^{\circ} 15'$ W. of cor. Pits impracticable.

Thence N. $56^{\circ} 30'$ E.

40.00 Set a sandstone, 24x19x6 ins., 18 ins. in the ground, for 169 mile cor., marked 169 M on S.W., U. I R on S.E., and U. F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $56^{\circ} 30'$ W. of cor. Pits impracticable.

Land mountainous.

Soil sandy loam, 2d rate.

Timber, dense pines on 13.10 chs.

Undergrowth, dense sage-brush, 80.00 chs.

October 12, 1903, at this cor., I set off $7^{\circ} 09'$ S., on the decl. arc, and at 11 h., 47 m., a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is. $40^{\circ} 31'$ N.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	N. 56° 30' E. on the 170th mile.. Ascend along top of ridge, through dense sage-brush undergrowth.
37.60	Set a sandstone, 24x17x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 56° 30' W. of cor. Pits impracticable. Thence N. 4° 30' W.
1.40	Top of ascent, descend.
2.40	Set a sandstone, 24x18x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 4° 30' E. of cor. Pits impracticable.
40.90	Set a pine post; 36x6x6 ins. with mkd. stone, 18 ins. in grc for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 4° 30' E. of cor. Pits impracticable. Thence N. 83° 15' E.
1.50	Set a sandstone, 24x16x6 ins., 18 ins. in the ground, for 170 mile cor., marked 170 M on W., U I R on S., and U F R on N. faces; dig pits, 36x36x12 ins., N. 6° 45' W. and S. 6° 45' E. of stone, 4 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. 83° 15' W. of cor. Land mountainous. Soil rocky and stony, 4th rate. No timber. Dense sagebrush undergrowth, 80.00 chs. Mountainous land, 80.00 chs.
	N. 83° 15' E. on the 171st mile. Ascend along top of ridge, through dense sage-brush undergrowth.
18.00	Top of ascent, descend.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 28.00 Bottom of saddle, bears N. and S.
- 35.50 Set a sandstone, 28x14x8 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $83^\circ 15'$ W. of cor.
Pits impracticable.
Thence N. $52^\circ 45'$ E.
- 4.50 Set a sandstone, 24x19x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.W., U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $52^\circ 45'$ W. of cor.
Pits impracticable.
- 12.90 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $52^\circ 45'$ W. of cor. Pits impracticable.
Thence N. $38^\circ 15'$ E.
- 6.60 Wagon road from Woodland to Rhodes Canyon, bears E. and W.
- 11.60 U. S. Geological Monument, Elevation 9,769.5 ft.
- 15.30 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $38^\circ 15'$ W. of cor. Pits impracticable.
Thence N. 64° W.
- 6.30 Set a sandstone, 28x16x9 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 64° E. of cor. Pits impracticable.
Thence N. 81° W.
- 10.00 Set a pine post, 36x6x6 ins., with marked stone, 24 ins. in the ground, for 171 mile and angle cor., marked 171 M on E., \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2ft. high, S. 81° E. of cor. Pits impracticable.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Land mountainous.

Soil rocky and stony, 4th rate.

No timber.

Dense sage-brush undergrowth, 80.00 chs.

Mountainous land, 80.00 chs.

October 12, 1903.

October 13, 1903, at 9 h., 00 m., a.m., l.m.t., sky was overcast, and observation impossible.

S. $81^{\circ} 15'$ W. on the 172d mile.

Descend along top of ridge, through dense sage-brush undergrowth.

17.20 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.W., and U F R on N.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $81^{\circ} 15'$ E. of cor. Pits impracticable. Thence N. 13° E.

18.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 13° W. of cor. Thence N. $23^{\circ} 30'$ W.

4.80 Set a sandstone, 24x20x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and U F on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $23^{\circ} 30'$ E. of cor. Pits impracticable.

14.50 Set a sandstone, 24x16x9 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $23^{\circ} 30'$ E. of cor. Pits impracticable. Thence N. $34^{\circ} 45'$ E.

12.10 Set a sandstone, 24x18x7 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- ft. high, S. $34^{\circ} 45'$ W. of cor. Pits impracticable.
 Thence N. $40^{\circ} 45'$ W.
- 18.20 Set a sandstone, 24x20x8 ins., 18 ins. in the ground,
 for 172 mile and angle cor., marked 172 M on S., \angle U
 I R on E., and U F R on W. faces, and raise a mound of
 stone, 3 ft. base, 2 ft. high, S. $40^{\circ} 45'$ E. of cor.
 Pits impracticable.
 Land mountainous.
 Soil rocky and stony, 4th rate.
 No timber.
 Dense sage-brush undergrowth, 80.00 chs.
 Mountainous land, 80.00 chs.
 October 13, 1903, at this cor., I set off $7^{\circ} 32'$ S. on
 the decl. arc, and at 11 h., 47 m., a.m., l.m.t., observe
 the sun on the meridian, the resulting lat. is $40^{\circ} 33'$ N.
-
- N. $23^{\circ} 45'$ E. on the 173d mile. X
- Ascend along top of ridge, through dense sage-brush
 undergrowth.
- 19.00 Set a sandstone, 24x17x9 ins., 18 ins. in the ground,
 for angle cor., marked \angle U I R on E., and U F R on W.
 faces, and raise a mound of stone, 3 ft. base, 2 ft. high
 S. $23^{\circ} 45'$ W. of cor. Pits impracticable.
 Thence N. $23^{\circ} 45'$ W.
- 7.10 Set a sandstone, 28x18x9 ins., 21 ins. in the ground,
 for angle cor., marked \angle U I R on E., and U F R on W.
 faces, and raise a mound of stone, 3 ft. base, 2 ft.
 high, S. $23^{\circ} 45'$ E. of cor. Pits impracticable.
 Thence N. $64^{\circ} 30'$ W.
 Ascend over rough broken country.
- 13.90 Set a sandstone, 32x18x9 ins., 24 ins. in the ground,
 for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.E., \angle U I R
 on N.E., and U F R on S.W. faces, and raise a mound of
 stone, 3 ft. base, 2 ft. high, S. $64^{\circ} 30'$ E. of cor.
 Pits impracticable.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- Thence N. $74^{\circ} 30'$ W.
- 12.50 Set a sandstone, 24x18x8 ins., 18 ins. in the ground for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $74^{\circ} 45'$ E. of cor.
Pits impracticable.
Thence N. $56^{\circ} 30'$ W.
- 6.90 Set a sandstone, 28x14x8 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $56^{\circ} 30'$ E. of cor. Pits impracticable.
Thence N. $49^{\circ} 15'$ W.
- 13.10 Set a sandstone, 28x14x8 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $49^{\circ} 15'$ E. of cor. Pits impracticable.
Thence N. $71^{\circ} 45'$ W.
- 7.50 Set a sandstone, 24x18x9 ins., 18 ins. in the ground, for 173 mile and angle cor., marked 173 M on E., \angle U I R on N., and U F R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $71^{\circ} 45'$ E. of cor.
Pits impracticable.
Land mountainous.
Soil rocky and stony, 4th rate.
No timber.
Dense sage-brush undergrowth, 80.00 chs.
Mountainous land, 80.00 chs.
-
- N. $61^{\circ} 45'$ W. on the 174th mile.
Ascend along top of rocky ridge, through dense sage-brush undergrowth.
- 16.70 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $61^{\circ} 45'$ E. of cor.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- high, S. $61^{\circ} 45'$ E. of cor. Pits impracticable.
 Thence N. 54° W.
- 25.30 Set a sandstone, 24x17x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S.E., U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 54° E. of cor. Pits impracticable.
- 29.30 Set a sandstone, 28x19x6 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 54° E. of cor. Pits impracticable.
 Thence N. $8^{\circ} 15'$ W.
- 6.90 Angle cor. falls on a rock in place, 10x16x20 ft. above ground, at the exact cor. point I cut a cross (X), marked \angle U I R on E., and U F R on W. of cross (X), and raise a mound of stone, 3 ft. base, 2 ft. high, S. $8^{\circ} 15'$ E. of cor. Pits impracticable.
 Thence N. $28^{\circ} 45'$ W.
- 18.50 Set a sandstone, 28x14x8 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $28^{\circ} 45'$ E. of cor. Pits impracticable.
 Thence N. 82° W.
- 8.60 Set a sandstone, 28x16x8 ins., 21 ins. in the ground, for 174 mile and angle cor., marked 174 M on E., \angle U I R on N., and U F R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 82° E. of cor. Pits impracticable.
 Land mountainous.
 Soil rocky and stony, 4th rate.
 No timber.
 Dense sage-brush undergrowth, 80.00 chs.
 Mountainous land, 80.00 chs.

October 13, 1903.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- S. $80^{\circ} 15'$ W. on the 175th mile.
Ascend along top of ridge, through dense sage-brush undergrowth.
- 11.80 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N., and U F R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $80^{\circ} 15'$ E. of cor. Pits impracticable.
Thence N. $73^{\circ} 15'$ W.
- 8.50 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $73^{\circ} 15'$ E. of cor. Pits impracticable.
Thence N. 9° W.
- 10.60 Set a sandstone, 24x17x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 9° E. of cor. Pits impracticable.
Bottom of saddle, bears E. and W.
Thence N. $14^{\circ} 15'$ E.
- 9.10 Set a sandstone, 28x14x9 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $14^{\circ} 15'$ W. of cor.
Pits impracticable.
- 24.10 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $14^{\circ} 15'$ W. of cor. Pits impracticable.
Thence N. $44^{\circ} 15'$ W.
- 9.00 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $44^{\circ} 15'$ E. of cor. Pits impracticable.
Thence N. $76^{\circ} 45'$ W.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 16.00 Set a sandstone, 28x17x6 ins., 21 ins. in the ground, for 175 mile cor., marked 175 M on E., U I R on N., and U F R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $76^{\circ} 45'$ E. of cor.
 Pits impracticable.
 Land mountainous.
 Soil rocky and stony, 4th rate.
 No timber.
 Dense sage-brush undergrowth, 80.00 chs.
 Mountainous land, 80.00 chs.
-
- October 14, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 34'$ N. on the lat. arc; $7^{\circ} 51'$ S. on the decl. arc, and determine a meridian with the solar, at the 175th mile cor.
 Thence I run
 N. $76^{\circ} 45'$ W. on the 176th mile.
 Ascend along top of ridge, through dense sage-brush undergrowth.
- 2.60 Top of ascent, descend.
 Set a sandstone, 24x19x10 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N., and U F R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $76^{\circ} 45'$ E. of cor. Pits impracticable.
 From this angle cor. the U. S. Mineral Monument No. 1, unorganized mining district, Wasatch Co., bears N. 59° E., 39 lks. dist.
 Thence N. $57^{\circ} 30'$ W.
 Leave dense sage-brush undergrowth, enter scattering pines and aspens.
- 5.60 Bottom of descent, ascend..
- 26.90 Set a sandstone, 28x18x7 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 2 ft. high, S. $57^{\circ} 30'$ E. of cor. Pits impracticable.
 Thence S. $70^{\circ} 15'$ W.
- 4.70 Set a sandstone, 28x14x8 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N., and U F R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $70^{\circ} 15'$ E. of cor. Pits impracticable.
 Thence N. $50^{\circ} 45'$ W.
- 2.30 Top of ascent, descend.
- 5.80 Set a sandstone, 28x18x9 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $50^{\circ} 45'$ E. of cor.
 Pits impracticable.
- 11.00 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $50^{\circ} 45'$ E. of cor. Pits impracticable.
 Thence N. $27^{\circ} 15'$ W.
- 9.00 Bottom of descent, ascend.
- 19.20 Set a sandstone, 24x18x7 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $27^{\circ} 15'$ E. of cor. Pits impracticable.
 Thence N. $53^{\circ} 30'$ W.
- 7.60 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $53^{\circ} 30'$ E. of cor. Pits impracticable.
 Thence N. $45^{\circ} 30'$ W.
- 8.00 Set a sandstone, 24x18x12 ins., 18 ins. in the ground, for 176 mile cor., marked 176 M on S.E., U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $45^{\circ} 30'$ E. of cor.
 Pits impracticable.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	<p>Land mountainous.</p> <p>Soil rocky and stony, 4th rate.</p> <p>Timber, scattering pines and aspens, 77.40 chs.</p> <p>Dense sage-brush undergrowth, 80.00 chs.</p> <p>Mountainous land, 80.00 chs.</p> <p>October 14, 1903, at this cor., I set off $7^{\circ} 54'$ S., on the decl. arc, and at 11 h., 47 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 35'$ N.</p> <hr/> <p>N. $45^{\circ} 30'$ W. on the 177th mile.</p> <p>Ascend along top of rocky ridge, through scattering pines and aspens.</p>
23.50	<p>Set a sandstone, 28x18x6 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.E., and U F R on S.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $45^{\circ} 30'$ E. of cor. Pits impracticable.</p> <p>Thence N. $24^{\circ} 45'$ W.</p>
7.40	<p>Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $24^{\circ} 45'$ E. of cor. Pits impracticable.</p> <p>Thence N. $30^{\circ} 45'$ E.</p>
9.10	<p>Set a sandstone, 24x19x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $30^{\circ} 45'$ W. of cor. Pits impracticable.</p>
21.70	<p>Set a sandstone, 24x18x9 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $30^{\circ} 45'$ W. of cor. Pits impracticable.</p> <p>Thence S. $50^{\circ} 15'$ E.</p>
8.40	<p>Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft.</p>

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- high, N. $50^{\circ} 15'$ W. of cor. Pits impracticable.
 Thence S. $70^{\circ} 45'$ E.
- 19.00 Set a sandstone, $36 \times 18 \times 9$ ins., 27 ins. in the ground, for 177 mile and angle cor., marked 177 M on N.W., \angle U I R on S.W., and U F R on N.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. $70^{\circ} 45'$ W. of cor. Pits impracticable.
 Land mountainous.
 Soil rocky and stony, 4th rate.
 Timber, scattering pines and aspens, 80.00 chs.
 Mountainous land, 80.00 chs.
-
- S: 58° E. on the 178th mile.
 Descend along top of ridge, through scattering pines and aspens.
- 13.96 Angle cor. falls on a rock in place, $10 \times 12 \times 3$ ft. above ground, At the exact cor. point I cut a cross (X), and mark \angle U I R on S.W., and U F R on N.E. of cross (X), and raise a mound of stone, 3 ft. base 2 ft. high, N. 58° W. of cor. Pits impracticable.
 Thence S. 69° E.
- 8.90 Set a sandstone, $24 \times 14 \times 8$ ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.W., and U F R on N.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 69° W. of cor. Pits impracticable.
 Thence S. $59^{\circ} 30'$ E.
- 6.45 Set a sandstone, $28 \times 11 \times 8$ ins., 21 ins. in the ground, for angle cor., marked \angle U I R on S.W., and U F R on N.E. faces, from which;
 An aspen, 7 ins. diam., bears S. $50^{\circ} 30'$ E., 57 lks. dist., marked \angle U I R B T.
 A pine, 16 ins. diam., bears N. $51^{\circ} 30'$ E., 57 lks. dist., marked \angle U I R B T.
 No other suitable bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. 59° .

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	30' W. of cor. Pits impracticable.
9.40	Thence S. 57° E. Set a sandstone, 24x18x9 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.W., and U F R on N.E. faces, from which; A pine, 16 ins. diam., bears N. 9° W., 17 lks. dist., marked \angle U F R B T. A pine, 8 ins. diam., bears S. 2° W., 137 lks. dist., marked \angle U I R B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. 57° W. of cor. Pits impracticable.
1.29	Thence S. 67° E. Set a sandstone, 24x14x10 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on N.W., U I R on S.W., and U F R on N.E. faces, from which; A pine, 16 ins. diam., bears N. 85° E., 130 lks. dist., marked U F R $\frac{1}{2}$ M B T. A pine, 14 ins. diam., bears S. 39° E., 150 lks. dist., marked U I R $\frac{1}{2}$ M B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. 67° W. of cor. Pits impracticable.
9.27	Set a sandstone, 28x16x8 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on N.W., and U F R on N.E. faces, from which; A pine, 6 ins. diam., bears S. 87° E., 58 lks. dist., marked \angle U F R B T. A pine, 36 ins. diam., bears S. 35° 30' W., 17 lks. dist., marked \angle U I R B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. 67° W. of cor. Pits impracticable.
	Thence S. 71° 30' E.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 7.70 Set a sandstone, 24x17x7 ins., 18 ins. in the ground, for an angle cor., marked \angle U I R on S., and U F R on N. faces, from which; A pine, 24 ins. diam., bears S. 9° E., 18 lks. dist., marked \angle U I R B T. A pine, 18 ins. diam., bears N. 26° E., 60 lks. dist., marked \angle U F R B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, N. $71^{\circ} 30'$ W. of cor. Pits impracticable. Thence S. 59° E.
- 10.44 Set a sandstone, 24x15x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.W., and U F R on N.E. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, N. 59° W. of cor. Pits impracticable. Thence N. 83° E.
- 6.48 Set a sandstone, 24x15x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, from which; A pine, 8 ins. diam., bears N. 22° E., 27 lks. dist., marked \angle U F R B T. A pine, 8 ins. diam., bears S. 41° E., 23 lks. dist., marked \angle U I R B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 83° W. of cor. Pits impracticable. Thence N. 54° E.
- 7.40 Set a sandstone, 32x15x8 ins., 24 ins. in the ground, for 178 mile cor., marked 178 M on S.W., U-I R on S.E., and U F R on N.W. faces, from which; A pine, 10 ins. diam., bears N. 57° W., 39 lks. dist., marked 178 M U I R B T. A pine, 7 ins. diam., bears S. 25° E., 35 lks. dist., marked 178 M U I R B T

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 54° W. of cor. Pits impracticable.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

October 14, 1903.

N. 54° E. on the 179th mile.

Descend along top of ridge, through scattering pine timber.

1.00 Enter dense pine timber, bears E. and W.

1.11 Set a sandstone, 28x19x9 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, from which;

A pine, 24 ins. diam., bears S. 26° E., 19 lks. dist., marked \angle U I R B T.

A pine, 26 ins., diam., bears N. 37° W., 35 lks. dist., marked \angle U F R B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 54° W. of cor. Pits impracticable.

Thence N. $43^{\circ} 30'$ E.

6.78 Set a sandstone, 24x19x9 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $43^{\circ} 30'$ W. of cor. Pits impracticable.

Thence N. $27^{\circ} 30'$ E.

5.30 Set a sandstone, 28x18x8 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, from which;

A pine, 16 ins. diam., bears S. 73° E., 47 lks. dist., marked \angle U I R B T.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	A pine, 12 ins. diam., bears N. 39° W., 17 lks. dist., marked \angle U F R B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $24^{\circ} 30'$ W. of cor. Pits impracticable.
	Thence N. $24^{\circ} 30'$ E.
13.00	Bottom of saddle, bears N.E. and S.W..
15.83	Set a sandstone, 32x16x6 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, from which; A pine, 9 ins. diam., bears N. 58° W., 32 lks. dist., marked \angle U F R B T.
	A pine, 10 ins. diam., bears S. 68° E., 52 lks. dist., marked \angle U I R B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $24^{\circ} 30'$ W. of cor. Pits impracticable.
	Thence N. $19^{\circ} 30'$ E.
10.98	Set a sandstone, 24x19x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M. on S., U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $19^{\circ} 30'$ W. of cor. Pits impracticable. No suitable bearing trees available.
17.54	Set a sandstone, 32x14x6 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, from which; A pine, 26 ins. diam., bears N. 14° W., 14 lks. dist., marked \angle U F R B T.
	A pine, 24 ins. diam., bears S. $79^{\circ} 30'$ E., 35 lks. dist., marked \angle U I R B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $19^{\circ} 30'$ W. of cor. Pits impracticable.
	Thence N. $49^{\circ} 30'$ E.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- 13.03 Set a sandstone, 28x18x8 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $49^{\circ} 30'$ W. of cor. Pits impracticable. No suitable bearing trees available.
Thence N. 62° E.
- 20.41 Set a sandstone, 28x14x10 ins., 21 ins. in the ground, for 179 mile cor., marked 179 M on S.W., U I R on S.E., and U F R on N.W. faces, from which;
A pine, 9 ins. diam., bears S $^{\circ}$ 85° E., 19 lks. dist., marked 179M UIR B T.
A pine, 12 ins. diam., bears N. 58° W., 47 lks. dist., marked 179MUF R B T.
No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 62° W. of cor. Pits impracticable.
Land mountainous.
Soil rocky and stony, 4th rate.
Timber, dense pines and aspens, 79.00 chs.
Scattering pines and aspens, 1.00 ch.
Mountainous land, 80.00 chs.
-
- N. 62° E. on the 180th mile.
Descend along top of ridge, through heavy pine and aspen timber.
- 3.32 Set a sandstone, 24x14x14 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, from which;
A pine, 10 ins. diam., bears N. 34° W., 17 lks. dist., marked \angle U F R B T.
A pine, 10 ins. diam., bears S. 76° E., 57 lks. dist., marked \angle U I R B T.
No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 62° W. of cor.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Pits impracticable.
	Thence N. $38^{\circ} 45'$ E.
8.68	Set a sandstone, 28x19x8 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $38^{\circ} 45'$ W. of cor. Pits impracticable.
	Thence N. $51^{\circ} 45'$ E.
8.28	Set a sandstone, 28x14x10 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, from which;
	A pine, 28 ins. diam., bears N. 15° W., 14 lks. dist., marked \angle U F R B T.
	A pine, 7 ins. diam., bears S. 52° E., 16 lks. dist., marked \angle U I R B T.
	No other bearing trees available, therefore I raise a mound of stone, 3 ft. base, 2 ft. high, S. $51^{\circ} 45'$ W. of cor. Pits impracticable.
	Thence N. $50^{\circ} 45'$ E.
12.07	Set a sandstone, 32x16x6 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, from which;
	A pine, 15 ins. diam., bears N. 20° W., 85 lks. dist., marked \angle U I R B T.
	A pine, 15 ins. diam., bears S. 34° E., 26 lks. dist., marked \angle U F R B T.
	No other suitable bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $50^{\circ} 45'$ W. of cor. Pits impracticable.
	Thence N. 40° E.
5.00	Bottom of saddle, ascend.
6.70	Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 4 ft. base, 2 ft. high, S. 40° W. of cor. Pits impracticable.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

Thence N. $13^{\circ} 15'$ E.

0.95 Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for $\frac{1}{8}$ mile cor., marked $\frac{1}{8}$ M on S., U I R on E., and U F R on W. faces, from which;

A pine, 14 ins. diam., bears N. 70° W., 40 lks. dist., marked $\frac{1}{8}$ M U F R B T.

A pine, 12 ins. diam., bears S. 29° E., 23 lks. dist., marked $\frac{1}{8}$ M U I R B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $13^{\circ} 15'$ W. of cor. Pits impracticable.

30.00 Top of ascent, descend.

40.95 Set a sandstone, 28x20x10 ins., 21 ins. in the ground, for 180 mile cor., marked 180 M on S., U I R on E., and U F R on W. faces, from which;

A pine, 12 ins. diam., bears S. 47° E., 34 lks. dist., marked 180 M U I R B T.

A pine, 9 ins. diam., bears N. 32° W., 37 lks. dist., marked 180 M U F R B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $13^{\circ} 15'$ W. of cor. Pits impracticable.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, dense pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

October 15, 1903, at this cor., I set off $8^{\circ} 16'$ S. on the decl. arc, and at 11 h., 46 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 36'$ N.

N. $13^{\circ} 15'$ E. on the 181st mile.

Descend along top of ridge, through dense pine timber.

7.72 Set a sandstone, 24x14x14 ins., 18 ins. in the ground,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

- | CHAINS | |
|--------|---|
| | for angle cor., marked \angle U I R on E., and P L on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 13° 15' W. of cor. Pits impracticable. |
| 13.42 | Cor. in saddle, bears E. and W. Thence N. 17° 45' E. |
| | Set a sandstone, 32x16x6 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, from which; A pine, 12 ins. diam., bears S. 54° E., 45 lks. dist., marked \angle U I R B T. |
| | A pine, 9 ins. diam., bears N. 44° W., 29 lks. dist., marked \angle U F R B T. |
| | No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 17° 45' W. of cor. Pits impracticable. |
| 3.61 | Thence N. 14° E. |
| | Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 14° W. of cor. Pits impracticable. |
| 7.93 | Thence N. 19° W. |
| | Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, from which; A pine, 10 ins. diam., bears S. 86° W., 9 lks. dist., marked \angle U F R B T. |
| | A pine, 8 ins. diam., bears S. 83° E., 48 lks. dist., marked \angle U I R B T. |
| | No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 19° E. of cor. Pits impracticable. |
| 6.51 | Thence N. 23° W. |
| | Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. |

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 23° E. of cor. Pits impracticable.
- Thence N. $26^{\circ} 30'$ E.
- 0.81 Set a sandstone, 24x18x9 ins., 18 ins. in the ground, for $\frac{1}{4}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces, from which;
- A pine, 14 ins. diam., bears N. 40° E., 27 lks. dist., marked $\frac{1}{2}$ M U I R B T.
- A pine, 16 ins. diam., bears N. 12° W., 29 lks. dist., marked $\frac{1}{2}$ M U F R B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $26^{\circ} 30'$ W. of cor. Pits impracticable.
- 13.06 Set a sandstone, 32x15x10 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $26^{\circ} 30'$ W. of cor. Pits impracticable.
- No suitable bearing trees available.
- Thence N. $21^{\circ} 30'$ W.
- 17.30 Set a sandstone, 24x18x10 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, from which;
- A pine, 26 ins. diam., bears S. 23° W., 19 lks. dist., marked \angle U F R B T.
- A pine, 17 ins. diam., bears S. $54^{\circ} 30'$ E., 70 lks. dist., marked \angle U I R B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $21^{\circ} 30'$ E. of cor. Pits impracticable.
- Thence N. $3^{\circ} 00'$ W.
- 9.23 Set a sandstone, 24x20x10 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 3° E. of cor. Pits impracticable.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	Thence N. $5^{\circ} 30'$ W.
1.22	Set a sandstone, 24x20x8 ins., 18 ins. in the ground, for 181 mile cor., marked 181 M on S., U I R on E., and P L on W. faces, from which; A pine, 10 ins. diam., bears S. 41° W., 32 lks. dist., marked 181 M U F R B T. A pine, 8 ins. diam., bears N. 40° E., 28 lks. dist., marked 181 M U I R B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $5^{\circ} 30'$ E. of cor. Pits impracticable. Land mountainous. Soil rocky and stony, 4th rate. Timbers, dense pines and aspens, 80.00 chs. Mountainous land, 80.00 chs. October 15, 1903, at 3 h., 00 m., p.m., l.m.t., sky was overcast, and observations impossible.
	N. $5^{\circ} 30'$ W. on the 182d mile. Ascend through scattering pines and aspens, along top of ridge, over loose slide rock.
11.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. S. $5^{\circ} 30'$ E. of cor. Pits impracticable. Thence N. 8° W.
29.00	Set a sandstone, 32x20x10 ins., 24 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and U F R on W. faces, from which; A pine, 9 ins. diam., bears S. 88° E., 36 lks. dist., marked $\frac{1}{2}$ M U I R B T. A pine, 10 ins. diam., bears N. 28° W., 29 lks. dist., marked $\frac{1}{2}$ M U F R B T. No other bearing trees available, therefore, I raise a

SOUTH AND WEST BOUNDARY, UINTAH INDIAN RESERVATION

CHAINS	
	mound of stone, 3 ft. base, 2 ft. high, S. 8° E. of cor. Pits impracticable.
49.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, from which; A pine, 6 ins. diam., bears S. $81^{\circ} 30'$ W., 17 lks. dist., marked \angle U F R B T. A pine, 23 ins. diam., bears N. $81^{\circ} 30'$ E., 60 lks. dist., marked \angle U I R B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 8° E. of cor. Pits impracticable. Thence N. $31^{\circ} 30'$ W.
4.00	Top of ascent, descend.
15.10	Angle cor. falls on a rock in place, 10x6x2 ft. above ground, at the exact cor point I cut a cross (X), marked \angle U I R on E., and U F R on W. of the cross (X), from which; A pine, 10 ins. diam., bears S. 62° E., 52 lks. dist., marked \angle U I R B T. A pine, 8 ins. diam., bears N. 82° W., 20 lks. dist., marked \angle U F R B T. No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $31^{\circ} 30'$ E. of cor. Pits impracticable. Thence N. $12^{\circ} 30'$ W.
4.90	Set a sandstone, 24x20x6 ins., 18 ins. in the ground, for 182 mile cor., marked 182 M on S., U I R on E., and U F R on W. faces, from which; A pine, 14 ins. diam., bears N. 71° E., 37 lks. dist., marked 182 M U I R B T. A pine, 8 ins. diam., bears S. 71° W., 88 lks. dist., marked 182 M U F R B T. No other bearing trees available, therefore, I raise a

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

mound of stone, 3 ft. base, 2 ft. high, S. $12^{\circ} 30'$ E. of cor. Pits impracticable.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, scattering pines and aspens, 80.00 chs.

Mountainous land, 80.00 chs.

October 15, 1903.

N. $12^{\circ} 30'$ W. on the 183d mile.

Descend through scattering pines and aspens, along top of ridge.

11.58 Set a sandstone, 24x20x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $12^{\circ} 30'$ E. of cor. Pits impracticable.

Thence N. $18^{\circ} 30'$ E.

10.80 Set a sandstone, 32x14x7 ins., 24 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, from which,

A pine, 8 ins. diam., bears S. 30° E., 42 lks. dist., marked \angle U I R B T.

A pine, 7 ins. diam., bears N. 66° W., 13 lks. dist., marked \angle U F R B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $18^{\circ} 30'$ W. of cor. Pits impracticable.

Thence N. 14° W.

7.27 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 14° E. of cor. Pits impracticable.

Thence N. $69^{\circ} 30'$ W.

10.35 Set a sandstone, 24x20x9 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S. \angle U I R on

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CHAINS

E., and U F R on W. faces, from which;

A pine, 14 ins. diam., bears S. 33° W., 50 lks. dist., marked $\frac{1}{2}$ M Z U F R B T.

A pine, 10 ins. diam., bears N. 70° 30' E., 85 lks. dist., marked $\frac{1}{2}$ M Z U I n B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 60° 30' E. of cor. It's impracticable.

Thence N. 70° W.

4.00 Set a sandstone, 24x20x6 ins., 18 ins. in the ground, for angle cor., marked $\frac{1}{2}$ U I R on N., and U F R on S. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 70° E. of cor. It's impracticable.

Thence N. 15° W.

0.00 Begin abrupt descent.

10.00 Bottom of abrupt descent.

12.00 Set a sandstone, 30x18x6 ins., 24 ins. in the ground, for angle cor., marked $\frac{1}{2}$ U I R on N., and U F R on S. faces, from which;

A pine, 14 ins. diam., bears S. 70° 30' E., 9 lks. dist., marked $\frac{1}{2}$ U I R B T.

A pine, 10 ins. diam., bears West, 10 lks. dist., marked $\frac{1}{2}$ U F R B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 15° E. of cor. It's impracticable.

Thence N. 2° W.

0.00 Set a sandstone, 24x14x10 ins., 18 ins. in the ground, for angle cor., marked $\frac{1}{2}$ U I R on S., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 2° E. of cor. It's impracticable.

Thence N. 62° E.

12.00 Set a sandstone, 28x14x6 ins., 21 ins. in the ground, for 183 mils and angle cor., marked 183 M on S.W., $\frac{1}{2}$ U I R

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	on S.E., and U F R on N.W. faces, from which; A pine, 10 ins. diam., bears N. 52° W., 21 lks. dist., marked 183 M \angle U F R B T.
	A pine, 14 ins. diam., bears S. 23° W., 30 lks. dist., marked 183 M \angle U I R B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 62° W. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky and stony, 4th rate.
	Timber, scattering pines and aspens, 80.00 chs.
	Mountainous land, 80.00 chs.

	October 16, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 37'$ N. on the lat. arc; $8^{\circ} 36'$ S. on the decl. arc, and determine a meridian with the solar at the 183 mile cor.
	Thence I run
	N. 69° E. on the 184th mile.
	Descend gently along top of ridge, through scattering pine and aspen timber.
8.00	Small spur, projects N.
22.00	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 69° W. of cor. Pits impracticable.
	Thence N. 30° E.
6.00	Head of draw, drains S.E., ascend.
18.00	Set a sandstone, 28x14x8 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile and angle cor., marked $\frac{1}{2}$ M on S.W., \angle U I R on S.E., and U F R on N.W. faces, from which; A pine, 14 ins. diam., bears S. 77° E., 10 lks. dist., marked $\frac{1}{2}$ -M \angle U I R-B T

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CHAINS

- A pine, 9 ins. diam., bears N. 74° W., 14 lks. dist., marked 1/4 U I R P R T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 30° W. of cor. Pits impracticable.
- Thence N. 56° E.
- 13.80 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for angle cor., marked 1/4 U I R on S.E., and U P R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 56° E. of cor. Pits impracticable.
- Thence N. 15° E.
- 12.60 Set a sandstone, 24x20x8 ins., 18 ins. in the ground, for angle cor., marked 1/4 U I R on S.E., and U P R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 15° E. of cor. Pits impracticable.
- Thence N. 42° E.
- 6.80 Set a sandstone, 24x20x8 ins., 18 ins. in the ground, for angle cor., marked 1/4 U I R on S.E., and U P R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 42° E. of cor. Pits impracticable.
- Thence N. 06° E.
- 6.80 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for 1/4 mile cor., marked 1/4 M on W., U I R on S., and U P R on N. faces, from which:
- A pine, 10 ins. diam., bears N. 18° W., 20 lks. dist., marked 1/4 M U I R P R T.
- A pine, 9 ins. diam., bears S. 14° W., 20 lks. dist., marked 1/4 M U I R P R T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 86° W. of cor. Pits impracticable.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- Timber, scattering pines and aspens, 80.00 obs.

SOUTH AND WEST BOUNDARY, QUINTAH INDIAN RESERVATION

CHAINS	
11.30	Mountainous land, 80.00 chs. October 16, 1903, at this cor., I set off 8° 39' S. on the decl. arc, and at 11 h., 46 m., 14.5 sec. a.m., 11. m.t., observe the sun on the meridian, the resulting lat. is 40° 38' N.
12.60	N. 86° E. on the 185th mile. Ascend along top of ridge, through scattering pines and aspens.
12.60	Set a sandstone, 24x18x8 ins., 18 ins. in the ground, for angle cor., marked \angle U.I.R on S., and U.F.R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 86° W. of cor. Pits impracticable.
13.50	Thence N. 42° E. to a low point, trees slight, no Set a sandstone, 24x20x6 ins., 18 ins. in the ground, for angle cor., marked \angle U.I.R on S.E., and U.F.R on N.W. faces, from which;
14.50	A pine, 10 ins. diam., bears S. 33° E., 25 lks. dist., marked \angle U.I.R.B.T.
14.50	A pine, 16 ins. diam., bears N. 1° W., 31 lks. dist., marked \angle U.F.R.B.T.
14.50	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 42° W. of cor. Pits impracticable.
15.70	Thence N. 79° E.
16.70	Point for $\frac{1}{2}$ mile cor. falls on a rock in place, 1x2x2 ft. above ground. At the exact cor. point, I cut a cross (X), marked $\frac{1}{2}$ M on W., U.I.R on S., and U.F.R on N. of cross (X), from which;
17.70	A pine, 10 ins. diam., bears N. 22° W., 28 lks. dist., marked $\frac{1}{2}$ M U.I.R.B.T.
17.70	A pine, 10 ins. diam., bears S. 46° W., 20 lks. dist., marked $\frac{1}{2}$ M U.I.R.B.T.
17.70	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 79° W. of cor.

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CHAINS

- Pits impracticable.
- 28.20 Set a sandstone, 24x14x9 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on S.E., and U F R on N.W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 79° W. of cor. Pits impracticable.
Thence N. $9^\circ 15'$ E.
- 11.00 Head of draw, drains S.E., ascend.
- 33.50 Point for 185 mile and angle cor., falls on a rock in place, 1x2x3 ft. above ground. At the exact cor. point I cut a cross (X), marked 185 M on S., \angle U I R on E., and U F R on W. of cross (X), from which;
A pine, 10 ins. diam., bears S. 33° E. 36 lks. dist., marked 185 M U I R B T.
A pine, 8 ins. diam., bears S. 31° W., 47 lks. dist., marked 185 M U F R B T.
No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $9^\circ 15'$ W. of cor. Pits impracticable.
Land mountainous.
Soil rocky and stony, 4th rate.
Timber, scattering pines and aspens, 80.00 chs.
Mountainous land, 80.00 chs.
-
- N. 15° E. on the 186th mile.
Ascend abruptly along top of ridge, through scattering pines and aspens.
- 1.00 Small spur projects N.W., descend.
- 2.00 Head of gulch, drains N.W., ascend.
- 40.00 Set a sandstone, 24x14x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and U F R on W. faces, from which;
A pine, 10 ins. diam., bears N. $71^\circ 30'$ W., 35 lks. dist., marked $\frac{1}{2}$ M U F R B T.
A pine, 12 ins. diam., bears East 79° lks. dist.,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS

- marked $\frac{1}{2}$ M U I R B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 15° W. of cor. Pits impracticable.
- 61.30 Set a sandstone, 28x16x6 ins., 21 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, from which;
- A pine, 24 ins. diam., bears N. $72^{\circ} 30'$ E., .85 lks. dist., marked \angle U I R B T.
- A pine, 16 ins. diam., bears N. 56° W., 75 lks. dist., marked \angle U F R B T.
- No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. 15° W. of cor. Pits impracticable.
- Thence N. $17^{\circ} 15'$ W.
- 18.70 Set a sandstone, 24x16x8 ins., 18 ins. in the ground, for 186 mile cor., marked 186 M on S., U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. bas 2 ft. high, S. $17^{\circ} 15'$ E. of cor.. Pits impracticable.
- Land mountainous.
- Soil rocky and stony, 4th rate.
- Timber, scattering pines and aspens, 80.00 chs.
- Mountainous-land, 80.00 chs.
- October 16, 1903.
-
- N. $17^{\circ} 15'$ W. on the 187th mile.
- Ascend along top of ridge, through scattering pines and aspens.
- 12.60 Set a sandstone, 24x16x8 ins., 18 ins. in the ground, for angle cor., marked \angle U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $17^{\circ} 15'$ E. of cor.. Pits impracticable.

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CHAINS

- Thence N. $9^{\circ} 52'$ E.
- 27.40 Set a sandstone, 36x14x10 ins., 27 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and U F R on W. faces, from which;
A pine, 7 ins. diam., bears N. 53° E., 9 lks. dist., marked $\frac{1}{2}$ M U I R B T.
A pine, 18 ins. diam., bears S. 87° W., 114 lks. dist., marked $\frac{1}{2}$ M U F R B T.
No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $9^{\circ} 52'$ W. of cor. Pits impracticable.
- 67.40 Set a sandstone, 28x12x12 ins., 21 ins. in the ground, for 187 mile cor., marked 187 M on S., U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $4^{\circ} 52'$ W. of cor. Pits impracticable.
Land mountainous.
Soil rocky and stony, 4th rate.
Timber, scattering pines and aspens, 80.00 chs.
Mountainous land, 80.00 chs.
-
- October 17, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 40'$ N. on the lat. arc; $8^{\circ} 58'$ S. on the decl. arc., and determine a meridian with the solar at the 187 mile cor.
- Thence I run
N. $9^{\circ} 52'$ E. on the 188th mile.
Ascend along top of ridge, through scattering pines and aspens.
- 17.90 Point for angle cor. falls on rock in place, 6x12x10 ft. above ground, at the exact cor. point I cut a cross (X), marked \angle U I R on E., and U F R on W. of cross (X), from which;
A pine, 18 ins. diam., bears S. 39° E., 138 lks. dist.,

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

CHAINS	
	marked \angle U I R B T.
	A pine, 10 ins. diam., bears S. 59° W., 107 lks. dist., marked \angle U F R B T.
	No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $9^{\circ} 52'$ W. of cor. Pits impracticable.
	Thence N. 79° E. a straight, level road to ridge N.
22.10	Set a sandstone, 28x14x9 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on W., U I R on S., and P L on N. faces, and raise a mound of stone, 3 ft. base, 2 ft high, S. 79° W. of cor. Pits impracticable.
62.10	Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for 188 mile and angle cor., marked 188 M on W., \angle U I R on S., and U F R on N. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. 79° W. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky and stony, 4th rate.
	Timber, scattering pines and aspens, .80.00 chs.
	Mountainous land, .80.00 chs.
	October 17, 1903, at this cor., I set off $9^{\circ} 01'$ S. on the decl. arc, and at 11 h., 46 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ} 41'$ N.

	N. $21^{\circ} 30'$ W. on the 189th mile.
	Descend gradually along top of ridge.
20.00	Begin abrupt descent.
34.00	Bottom of abrupt descent.
40.00	Set a sandstone, 28x18x6 ins., 21 ins. in the ground, for $\frac{1}{2}$ mile cor., marked $\frac{1}{2}$ M on S., U I R on E., and P L on W. faces, from which;
	A pine, 16 ins. diam., bears S. 50° E., 56 lks. dist. marked $\frac{1}{2}$ M U I R B T.

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CHAINS

A pine, 6 ins. diam., bears S. 70° W., 40 lks. dist., marked M U F R B T.

No other bearing trees available, therefore, I raise a mound of stone, 3 ft. base, 2 ft. high, S. $21^{\circ} 30'$ E. of cor. Pits impracticable.

47.00 Head of draw, drains N.E., ascend.

59.00 Small spur, projects N.E., descend.

75.00 Leave scattering pines and aspens, bears N.E. and S.W.

80.00 Set a sandstone, 32x19x12 ins., 24 ins. in the ground, for 189 mile cor., marked 189 M on S., U I R on E., and U F R on W. faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $21^{\circ} 30'$ E. of cor. Pits impracticable.

Land mountainous.

Soil rocky and stony, 4th rate.

Timber, scattering pines and aspens, 75.00 chs.

Mountainous land, 80.00 chs.

N. $21^{\circ} 30'$ W. on the 190th mile.

Ascend gradually along top of ridge.

31.70 Set a sandstone, 48x18x6 ins., 36 ins. in the ground, for the North West Cor. of the Uintah Indian Reservation, marked 189 M 31.7 chs. on S., U I R 1904 N W Cor on E. and U F R on W faces, and raise a mound of stone, 3 ft. base, 2 ft. high, S. $21^{\circ} 30'$ E. of cor. Pits impracticable.

Land mountainous.

Soil rocky, 4th rate.

No timber.

Mountainous land 31.70 chs. October 17, 1903.

INSTRUMENT TEST

October 17, 1903, at the N.W. cor. of the Uintah Indian Reservation, heretofore described, Latitude $40^{\circ} 42'$ N. Longitude $110^{\circ} 55' 30''$ W., I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made

SOUTH AND WEST BOUNDARY, UINTAH INDIAN RESERVATION

CHAINS

during p. m. and a. m. hours, with a meridian determined by observation on Polaris, I proceed as follows: At 4 h., 30 m., p.m., l.m.t., I set off $40^{\circ} 42'$ N. on the lat. arc; $9^{\circ} 04'$ S. on the decl. arc, and determine with the solar a meridian, and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of cor. At 11 h., 43 m., p.m., l.m.t., I observe Polaris at upper culmination, in accordance with Manual of Instructions, and mark the meridian thus determined by cutting a small groove in the stone previously set, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

October 17, 1903.

October 18, 1903, at 9 h., 00 m., a.m., l.m.t., I set off $40^{\circ} 42'$ N. on the lat. arc; $9^{\circ} 20'$ S. on the decl. arc, and mark a point on the meridian determined with the solar by a cross on the stone already set, 5 chs. N. of my station. This mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians, respectively, about $0^{\circ} 16''$ West, and $0^{\circ} 16''$ East of the meridian established by the Polaris observation, therefore, I concluded the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 9 h., 30 m., a.m., l.m.t., is N. $17^{\circ} 00'$ W. The angle thus determined gives the mag. decl. $17^{\circ} 00'$ E.

SOUTH AND WEST BOUNDARY OF UNTAH INDIAN RESERVATION

GENERAL DESCRIPTION

Commencing at the 18th mile cor., as established by Deputy Dougall, under his contract No. 227, on the South Boundary, which is not located on any well defined water shed, I run West and South West, according to my instructions, to a point 12.00 chs. S. $48^{\circ} 30'$ W. of the 36th mile corner, where I find a marked water shed. From this point I follow the water shed as closely as possible.

I did not intersect the Second Standard Parallel S., U. S. B. and M., or the North Boundary of T. 11 S., R. 15 E., of the Salt Lake Base and Meridian.

On the divide between the Minnie Maud and the Uintah valleys, I was unable to locate Mr. Preston Nutters' ranch and the improvements, as said ranch is situated several miles North of the Boundary, and within the Uintah Indian Reservation, and will be definitely located by the Deputy within whose contract the same will fall.

As I found no one who could identify the Peak known as Indian Head, I was unable to locate the same positively, but have shown a low Peak on the plat, which I supposed to be Indian Head. It is not at the South West corner of the Reservation, therefore, I continue my line in a Westerly direction, to a point 25.40 chs. S. 79° W. of the 102d mile cor., where I establish the South West corner heretofore described in these notes.

From this corner, I continue on the West Boundary to a point N. $21^{\circ} 30'$ W., 31.70 chs. from the 189th mile cor., where the drainage flows into the Uintah Indian Reservation on the East, and Utah Lake on the West, at which point I establish the N. W. corner of the Reservation, the North Boundary not yet having been established. I found no trace of the old Boundary Line.

The soil along the Boundary Line is nearly all rocky and stony, of the 3d and 4th rates.

SOUTH AND WEST BOUNDARY, UNTAH INDIAN RESERVATION

There is some pine and aspen timber, and, in places, dense willow and sage-brush undergrowth.

There are some indications of iron and copper along the West Boundary, but there are no indications of any mineral along the South Boundary.

There are no settlers along the boundary line, and the only grazing land is found along the West Boundary, as the South Boundary is dry and barren, and not fit for agricultural or grazing purposes.

Numerous streams and spring branches head near the Northern portion of the West Boundary.

Arthur J. Brown
U.S. Deputy Surveyor

There being no Notary Public, or other officer authorized to administer oaths, within a reasonable distance, either at the beginning or ending of this survey; in order to save time and expense, I administer the preliminary and final oaths myself.

Arthur J. Brown
U.S. Deputy Surveyor

LATITUDES AND DEPARTURES
of the
SOUTH AND WEST BDY. OF THE UNTAH INDIAN RESERVATION.

Line designated.	True bearing	Dis-tance	Latitude		Departure	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
Initial Point						
S.W.Bdy.to 1st M.Cor.	N. $59^{\circ}23'W.$	79.82	40.65	.....	.....	.68.69
From 1st M. to 2d M. "	N. $58^{\circ}36'W.$	80.51	41.95	.....	.....	.68.72
" 2nd " " 3d " "	N. $56^{\circ}41'W.$	79.87	43.87	.....	.....	.66.74
" 3rd " " 4th " "	N. $59^{\circ}19'W.$	80.00	40.82	.....	.....	.68.80
" 4th " " 5th " "	N. $57^{\circ}06'W.$	81.42	44.23	.....	.....	.68.36
" 5th " " 6th " "	N. $58^{\circ}34'W.$	80.76	42.12	.....	.....	.68.91
" 6th " " 7th " "	N. $72^{\circ}38'W.$	79.46	23.72	.....	.....	.75.84
" 7th " " 8th " "	N. $72^{\circ}51'W.$	79.87	23.55	.....	.....	.76.32
" 8th " " 9th " "	N. $72^{\circ}11'W.$	79.70	24.39	.....	.....	.75.88
" 9th " " 10th " "	N. $72^{\circ}06'W.$	80.10	24.62	.....	.....	.76.22
" 10th " " 11th " "	N. $80^{\circ}06'W.$	79.71	13.70	.....	.....	.78.52
" 11th " " 12th " "	N. $80^{\circ}16'W.$	79.96	13.52	.....	.....	.78.81
" 12th " " 13th " "	N. $80^{\circ}06'W.$	80.03	13.76	.....	.....	.78.84
" 13th " " 14th " "	N. $80^{\circ}20'W.$	80.35	13.49	.....	.....	.79.21
" 14th " " 15th " "	S. $89^{\circ}12'W.$	80.49	.....	1.12	.....	.80.48
" 15th " " 16th " "	S. $89^{\circ}22'W.$	80.26	.....	.89	.....	.80.26
" 16th " " 17th " "	N. $89^{\circ}32'W.$	74.92	.6174.92
" 17th " " 18th " "	S. $89^{\circ}52'W.$	80.811980.81
OTALS			105.00	2.10		1546.33

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PAGE

LATITUDES AND DEPARTURES OF SOUTH AND WEST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDE		DEPARTURE	
				N.	S.	E.	W.
			Chs.	Chs.	Chs.	Chs.	Chs.
From 18th	to 20th M.	N. 89°45'W.	160.00	.70			160.00
" 20th	" 25th "	S. 74°45'W.	400.00		105.21		385.91
" 25th	" 30th "	S. 19°00'W.	400.00		378.21		150.23
" 30th	" 35th "	S. 3°30'W.	400.00		399.26		24.42
" 35th	" 36th "	S. 3°30'W.	40.00		39.92		2.44
" 35th	" 36th "	S. 48°30'W.	40.00		26.50		29.96
" 36th	" 37th "	S. 48°30'W.	12.00		7.95		8.99
" 36th	" 37th "	S. 81°15'W.	68.00		10.34		67.21
" 37th	" 38th "	S. 81°15'W.	80.00		12.17		79.07
" 38th	" 39th "	S. 81°15'W.	13.00		1.98		12.85
" 38th	" 39th "	S. 67°45'W.	67.00		25.37		62.01
" 39th	" 40th "	S. 67°45'W.	15.00		5.68		13.88
" 39th	" 40th "	S. 35°30'W.	65.00		52.92		37.75
" 40th	" 41st "	S. 35°30'W.	80.00		65.13		46.45
" 41st	" 42d "	S. 35°30'W.	46.60		37.94		27.06
" 41st	" 42d "	S. 10°30'E.	33.40		32.84	6.08	
" 42d	" 43d "	S. 10°30'E.	17.60		17.31	3.21	
" 42d	" 43d "	S. 28°30'W.	62.40		54.84		29.77
" 43d	" 44th "	S. 28°30'W.	40.00		35.15		19.09
" 43d	" 44th "	S. 70°45'W.	40.00		13.19		37.77
" 44th	" 45th "	S. 70°45'W.	40.00		13.19		37.76
" 44th	" 45th "	S. 87°45'W.	40.00		1.56		39.97
" 45th	" 46th "	S. 87°45'W.	80.00		3.14		79.93
" 46th	" 47th "	S. 87°45'W.	80.00		3.14		79.94
" 47th	" 48th "	S. 87°45'W.	10.40		.41		10.39
" 47th	" 48th "	N. 54°30'W.	69.60	40.41			56.67
" 48th	" 49th "	N. 54°30'W.	40.00	23.23			32.56
" 48th	" 49th "	N. 80°15'W.	40.00	6.77			39.42
" 49th	" 50th "	N. 80°15'W.	48.70	8.25			48.00
" 49th	" 50th "	N. 14°45'W.	31.30	30.27			7.97
" 50th	" 51st "	N. 57°00'W.	80.00	43.57			67.09
" 51st	" 52d "	N. 57°00'W.	40.00	21.79			33.55
" 51st	" 52d "	S. 61°30'W.	40.00		19.08		35.15
" 52d	" 53d "	S. 61°30'W.	40.00		19.09		35.16
" 52d	" 53d "	S. 88°45'W.	40.00		.87		39.99
" 53d	" 54th "	S. 64°15'W.	77.00		33.45		69.36
" 53d	" 54th "	N. 38°00'W.	3.00	2.36			1.85
" 54th	" 55th "	N. 38°00'W.	7.00	5.52			4.31
" 54th	" 55th "	N. 72°45'W.	57.00	16.90			54.44
" 54th	" 55th "	S. 65°15'W.	16.00		6.70		14.53
" 55th	" 56th "	N. 88°45'W.	80.00	1.76			79.98
" 56th	" 57th "	N. 88°45'W.	10.30	.23			10.30
" 56th	" 57th "	S. 79°30'W.	26.70		4.87		26.25
" 56th	" 57th "	N. 52°45'W.	3.00	1.82			2.39
" 56th	" 57th "	N. 73°15'W.	40.00	11.53			38.50
" 57th	" 58th "	S. 63°00'W.	18.00		8.17		16.04
" 57th	" 58th "	N. 73°30'W.	40.00	11.36			38.35
" 57th	" 58th "	N. 35°00'W.	11.00	9.01			6.31
" 57th	" 58th "	N. 80°45'W.	11.00	1.77			10.86
" 58th	" 59th "	N. 80°45'W.	21.50	3.45			21.22
" 58th	" 59th "	S. 74°30'W.	10.50		2.80		10.12
" 58th	" 59th "	N. 61°15'W.	41.30	19.86			36.21
" 58th	" 59th "	S. 62°15'W.	6.70		3.12		5.93
" 59th	" 60th "	S. 62°15'W.	4.00		1.86		3.54
" 59th	" 60th "	S. 86°00'W.	7.00		.49		6.98
" 59th	" 60th "	N. 41°45'W.	9.10	6.79			6.06
" 59th	" 60th "	N. 89°15'W.	59.90	.78			59.90
" 60th	" 61st "	N. 89°15'W.	23.00	.30			23.00
" 60th	" 61st "	N. 71°30'W.	37.00	11.74			35.09
" 60th	" 61st "	S. 70°30'W.	20.00		6.68		18.85
" 61st	" 62d "	N. 64°45'W.	23.70	10.11			21.44
" 61st	" 62d "	N. 32°15'W.	56.30	47.61			30.04

337,89 1450,53 9,29 2470,06

TOTALS FORWARD,

LATITUDES AND DEPARTURES OF SOUTH AND WEST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDE		DEPARTURE	
				N.	S.	E.	W.
				Chs.	Chs.	Chs.	Chs.
FOOTINGS BROUGHT FORWARD,				337.89	1450.53	9.29	2470.06
From 62d to 63d M.		N.32°15'W.	10.00	8.46			5.34
" 62d "	63d "	S.73°00'W.	10.50		3.07		10.04
" 62d "	63d "	S.37°45'W.	59.50		47.05		36.43
" 63d "	64th M.	S.38°15'W.	36.00		28.27		22.29
" 63d "	64th "	N.61°30'W.	4.00	1.91			3.52
" 63d "	64th "	S.77°15'W.	16.50		3.64		16.09
" 63d "	64th "	N.83°45'W.	23.50	2.55			23.36
" 63d "	65th "	N.83°45'W.	30.00	3.26			29.82
" 64th "	65th "	S.60°15'W.	33.30		16.52		28.91
" 64th "	65th "	S.48°45'W.	16.70		11.01		12.56
" 65th "	66th "	S.48°45'W.	24.00		15.82		18.04
" 65th "	66th "	N.60°45'W.	15.20	6.45			11.52
" 65th "	66th "	S.37°45'W.	16.20		12.81		9.92
" 65th "	66th "	N.78°00'W.	20.60	4.28			20.15
" 65th "	66th "	S.48°15'W.	6.00		4.00		4.48
" 66th "	67th "	S.48°15'W.	17.00		11.32		12.69
" 66th "	67th "	N.85°15'W.	23.00	1.90			22.92
" 66th "	67th "	S.49°00'W.	25.30		16.60		19.09
" 66th "	67th "	S.80°30'W.	14.70		2.43		14.50
" 67th "	68th "	S.56°00'W.	25.00		13.98		20.72
" 67th "	68th "	N.79°45'W.	55.00	9.79			54.12
" 68th "	69th "	N.79°45'W.	32.00	5.69			31.49
" 68th "	69th "	S.50°30'W.	38.00		24.17		29.32
" 68th "	69th "	N.88°30'W.	10.00	.26			10.00
" 69th "	70th "	N.88°30'W.	17.80	.47			17.79
" 69th "	70th "	S.74°30'W.	62.20		16.63		59.94
" 70th "	71st "	S.74°30'W.	17.00		4.54		16.38
" 70th "	71st "	N.55°15'W.	34.70	19.78			28.51
" 70th "	71st "	S.54°15'W.	23.30		13.61		18.91
" 70th "	71st "	S.86°45'W.	5.00		.28		4.99
" 71st "	72d "	S.86°45'W.	64.00		3.63		63.90
" 71st "	72d "	S.23°45'W.	16.00		14.65		6.44
" 72d "	73d "	S.70°30'W.	45.00		15.02		42.42
" 72d "	73d "	N.67°45'W.	35.00	13.25			32.39
" 73d "	74th "	N.67°45'W.	3.00	1.14			2.78
" 73d "	74th "	S.69°00'W.	77.00		27.59		71.88
" 74th "	75th "	N.63°00'W.	40.00	18.16			35.6
" 74th "	75th "	S.62°45'W.	40.00		18.32		35.56
" 75th "	76th "	N.74°00'W.	54.00	14.88			51.9
" 75th "	76th "	N.58°45'W.	26.00	13.49			22.2
" 76th "	77th "	S.82°30'W.	28.00		3.65		27.7
" 76th "	77th "	S.44°00'W.	12.00		8.63		8.5
" 76th "	77th "	N.61°30'W.	32.50	15.51			28.5
" 76th "	77th "	N.00°15'W.	7.50	7.50			
" 77th "	78th "	N.00°15'W.	8.20	8.20			
" 77th "	78th "	N.48°15'W.	18.80	12.52			14.0
" 77th "	78th "	S.81°45'W.	13.00		1.87		12.8
" 77th "	78th "	S.83°00'W.	40.00		4.87		39.7
" 78th "	79th "	N.78°00'W.	5.00	1.04			4.8
" 78th "	79th "	N. 6°00'W.	23.00	22.87			2.1
" 78th "	79th "	N.33°45'W.	12.00	9.98			6.6
" 78th "	79th "	N.26°00'W.	12.80	11.50			5.6
" 78th "	79th "	N.88°15'W.	27.20	.84			27.1
" 79th "	80th "	N.88°15'W.	33.00	1.00			32.9
" 79th "	80th "	N.34°45'W.	7.00	5.75			3.9
" 79th "	80th "	N.76°15'W.	40.00	9.50			38.8
" 80th "	81st "	N.76°15'W.	4.40	1.05			4.2
" 80th "	81st "	N.47°45'W.	35.60	23.94			26..
" 80th "	81st "	S.88°45'W.	40.00		.87		39..
				594.81	1795.38	9.29	3773.5

TOTALS FORWARD,

LATITUDES AND DEPARTURES OF SOUTH AND WEST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDE		DEPARTURE	
				N.	S.	E.	W.
				Chs.	Chs.	Chs.	Chs.
Footings Brought Forward,				594.81	1795.38	9.29	3773.58
From 81st	to 82d	M..	S.88°45'W.	25.00		.55	24.99
" 81st	" 82d	"	N.27°30'W.	15.00	13.31		6.93
" 81st	" 82d	"	N.15°30'W.	40.00	38.55		10.69
" 82d	" 83d	"	N.15°30'W.	70.00	67.45		18.71
" 82d	" 83d	"	N.15°15'E.	10.00	9.65	2.65	
" 83d	" 84th	"	N. 8°30'W.	60.00	79.12		11.82
" 84th	" 85th	"	N.34°00'E.	22.00	18.24	12.30	
" 84th	" 85th	"	N.45°15'W.	58.00	40.83		41.19
" 85th	" 87th	"	N.11°45'W.	160.00	156.65		32.58
" 87th	" 88th	"	N. 4°30'E.	55.00	54.03	4.32	
" 87th	" 88th	"	N.46°45'W.	25.00	17.13		18.21
" 88th	" 89th	"	N.14°45'W.	58.00	56.09		14.77
" 88th	" 89th	"	N.49°00'W.	22.00	14.44		16.61
" 89th	" 90th	"	N.11°45'N.	15.00	14.69		5.05
" 89th	" 90th	"	N.10°15'E.	65.00	63.97	11.56	
" 90th	" 91st	"	N.10°15'E.	16.00	15.74	2.85	
" 90th	" 91st	"	N. 6°30'W.	41.00	40.74		4.64
" 90th	" 91st	"	E.37°45'W.	23.00	18.19		14.08
" 91st	" 92d	"	N.37°45'W.	60.50	47.83		37.04
" 91st	" 92d	"	N.81°45'W.	19.50	12.80		19.30
" 92d	" 93d	"	N.81°45'W.	12.05	1.73		11.92
" 92d	" 93d	"	N.31°00'W.	67.95	58.24		35.00
" 93d	" 94th	"	S.89°15'W.	80.00		1.05	80.00
" 94th	" 95th	"	S.62°00'W.	28.00		13.15	24.72
" 94th	" 95th	"	S.22°30'W.	12.00		11.09	4.59
" 94th	" 95th	"	S.45°15'W.	24.00		16.90	17.04
" 94th	" 95th	"	S.25°45'W.	16.00		14.41	6.95
" 95th	" 96th	"	S.25°45'W.	60.00		72.00	34.76
" 96th	" 97th	"	N.81°45'W.	13.00	1.87		12.86
" 96th	" 97th	"	S.71°30'W.	27.00		8.57	25.60
" 96th	" 97th	"	N.65°45'W.	34.00	13.96		31.00
" 96th	" 97th	"	S.40°15'W.	6.00		4.58	3.88
" 97th	" 98th	"	S.40°15'W.	40.00		30.53	25.84
" 97th	" 98th	"	S.53°15'W.	40.00		23.93	32.05
" 98th	" 99th	"	N.88°45'W.	9.00	.20		9.00
" 98th	" 99th	"	S.42°30'W.	42.90		31.63	28.98
" 98th	" 99th	"	S.63°30'W.	22.10		2.50	21.96
" 98th	" 99th	"	S.00°15'E.	6.00		6.00	.03
" 99th	" 100th	M..	S.24°15'E.	13.00		11.85	5.34
" 99th	" 100th	"	S.34°00'W.	10.00		8.29	
" 99th	" 100th	"	S.77°00'W.	57.00		12.82	55.54
" 100th	" 101st	"	S.61°45'W.	29.00		13.73	25.55
" 100th	" 101st	"	S.27°45'W.	29.00		25.66	13.50
" 100th	" 101st	"	N.77°00'W.	22.00	4.95		21.44
" 101st	" 102d	"	S.42°00'W.	27.70		20.58	18.53
" 101st	" 102d	"	S.74°00'W.	21.30		5.87	20.48
" 101st	" 102d	"	S.58°45'W.	31.00		16.08	26.50
" 102d	" 103d	"	S.79°00'W.	25.40		4.85	24.93
" 102d	" 103d	"	N.35°30'W.	54.60	44.45		31.71
" 102d	" 104th	"	S.78°15'W.	32.20		6.58	31.62
" 103d	" 104th	"	N.21°45'W.	20.70	28.51		11.38
" 103d	" 104th	"	N.17°00'E.	17.00	10.26	4.97	
" 104th	" 105th	"	N.12°00'W.	80.00	78.25		16.05
" 105th	" 105th	"	L.61°15'W.	69.00	32.48		61.02
" 105th	" 106th	"	L.14°45'W.	10.40	9.51		4.25
" 106th	" 107th	"	N.24°00'W.	60.00	54.80		24.40
" 106th	" 107th	"	N.89°00'W.	20.00	.35		20.00
" 107th	" 108th	"	N.23°00'W.	40.00	30.82		15.63
" 107th	" 108th	"	N.47°15'E.	22.70	15.41	16.67	
" 107th	" 108th	"	N.33°15'W.	4.60	3.85		2.52
" 107th	" 108th	"	N.62°30'W.	12.70	6.67		11.37
TOTALS FORWARD,				1773.37	2158.64	69.96	4896.91

LATITUDES AND DEPARTURES OF SOUTH AND WEST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDE		DEPARTURE	
				N.	S.	E.	W.
				Chs.	Chs.	Chs.	Chs.
				1773.37	2158.64	69.96	4896.91
Footings Brought Forward,							
From 108th to 109th M. N.19°15'W..		35.00	.53.04				11.54
" 108th " 109th "	S.48°30'W..	45.00		29.82			33.70
" 109th " 110th "	S.48°30'W..	31.90		21.14			23.89
" 109th " 110th "	S.79°30'W..	8.10		1.48			7.96
" 109th " 110th "	S.59°45'W..	35.00		16.62			28.51
" 109th " 110th "	S.84°15'W..	7.00		.70			6.96
" 110th " 111th "	S.84°15'W..	23.30		2.34			23.19
" 110th " 111th "	N.55°00'W..	18.90	.10.84				15.48
" 110th " 111th "	N.35°30'W..	37.80	.30.77				21.95
" 111th " 112th "	N.35°30'W..	27.00	.21.98				15.68
" 111th " 112th "	N.00°45'W..	23.00	.23.00				.30
" 111th " 112th "	N.30°30'W..	25.00	.21.54				12.69
" 111th " 112th "	N.30°45'E..	5.00	.4.56				2.56
" 112th " 113th "	N.30°45'E..	80.00	.68.75				40.89
" 113th " 114th "	N.30°45'E..	12.80	.11.00				6.55
" 113th " 114th "	N.39°15'W..	27.20	.21.06				17.21
" 113th " 114th "	N.20°00'E..	40.00	.37.59				13.68
" 114th " 115th "	N.37°50'W..	31.80	.25.23				19.36
" 114th " 115th "	N. 9°30'E..	35.30	.34.82				5.82
" 114th " 115th "	N.39°45'E..	12.90	.9.92				8.25
" 115th " 116th "	N.39°45'E..	27.00	.20.76				17.27
" 115th " 116th "	N. 6°30'W..	33.00	.32.79				3.74
" 115th " 116th "	N.52°45'E..	20.00	.12.11				15.92
" 116th " 117th "	N.52°45'E..	12.00	.7.26				9.55
" 116th " 117th "	N.17°45'E..	68.00	.64.76				20.73
" 117th " 118th "	N.17°45'E..	23.80	.22.67				7.26
" 117th " 118th "	N. 4°15'E..	46.20	.46.07				3.42
" 117th " 118th "	N. 21°00'W..	10.00	.9.34				3.58
" 118th " 119th "	N. 5°00'W..	66.00	.65.75				5.75
" 118th " 119th "	N.60°00'W..	14.00	.7.00				12.12
" 119th " 120th "	N.60°00'W..	17.10	.8.55				14.81
" 119th " 120th "	N.15°15'E..	15.10	.14.57				3.97
" 119th " 120th "	N.42°15'E..	18.80	.13.92				12.63
" 119th " 120th "	N. 2°00'E..	29.00	.28.98				1.01
" 120th " 121st "	N. 2°00'E..	20.00	.19.99				.70
" 120th " 121st "	N.32°45'E..	20.00	.16.82				10.82
" 120th " 121st "	N. 9°15'W..	13.70	.13.52				2.20
" 120th " 121st "	N.47°30'W..	26.30	.17.77				19.39
" 120th " 121st "	N.34°45'W..	40.00	.32.86				22.80
" 121st " 122d "	N. 2°30'E..	21.00	.20.98				.91
" 121st " 122d "	N.40°45'W..	19.00	.14.39				12.40
" 122d " 123d "	N.40°45'W..	23.80	.18.04				15.4
" 122d " 123d "	N.33°00'W..	51.20	.42.94				27.4
" 122d " 123d "	N.71°30'W..	5.00	.1.59				4.7
" 123d " 124th "	N.50°30'W..	44.50	.28.50				34.3
" 123d " 124th "	N.28°30'E..	11.50	.10.11				5.49
" 123d " 124th "	N.43°00'W..	24.00	.17.55				16.3
" 124th " 125th "	N.68°00'W..	18.50	.6.93				17.1
" 124th " 125th "	N.12°45'W..	38.50	.37.55				8.4
" 124th " 125th "	N.32°45'W..	23.00	.19.34				12.4
" 125th " 126th "	N.29°45'W..	40.00	.34.73				19.8
" 125th " 126th "	N.18°15'E..	10.20	.9.69				3.19
" 125th " 126th "	N.00°15'W..	29.80	.29.80				.1
" 126th " 127th "	N.00°15'W..	13.80	.13.80				3.5
" 126th " 127th "	N.11°45'W..	17.20	.16.84				1.48
" 126th " 127th "	N. 9°30'E..	9.00	.8.87				8.61
" 126th " 127th "	N.78°00'E..	8.80	.1.83				15.89
" 126th " 127th "	N.88°45'E..	15.90	.35				9.05
" 126th " 127th "	N.36°15'E..	15.30	.12.34				

TOTALS FORWARD,

2928.67 2230.74 295.61 5392.6

LATITUDES AND DEPARTURES OF SOUTH AND WEST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDE		DEPARTURE	
				N.	S.	E.	W.
				Chs.	Chs.	Chs.	Chs.
				2928.67	2230.74	295.61	5392.62
	Settings Brought Forward,						
From 127th to 128th M.	N. 36°15' E.,	16.60	13.38		9.81		
" 127th "	N. 55°45' W.,	8.40	4.73		6.95		
" 127th "	N. 32°15' W.,	55.00	46.53		29.35		
" 128th "	N. 54°30' W.,	24.30	14.10		19.77		
" 128th "	N. 31°45' W.,	15.70	13.35		8.26		
" 128th "	N. 8°15' W.,	16.00	15.84		2.29		
" 128th "	N. 46°30' W.,	10.10	6.95		7.33		
" 128th "	S. 79°00' W.,	2.40		.46	2.36		
" 128th "	N. 44°00' W.,	11.50	8.27		7.99		
" 129th "	N. 44°00' W.,	80.00	57.55		55.57		
" 130th "	N. 65°00' W.,	29.60	12.52		26.83		
" 130th "	N. 73°00' W.,	24.40	7.13		23.33		
" 130th "	N. 7°00' E.,	26.00	25.80		3.17		
" 131st "	N. 5°45' E.,	14.60	14.53		1.46		
" 131st "	N. 35°45' W.,	38.30	31.08		22.37		
" 131st "	N. 47°30' E.,	17.10	11.56		12.60		
" 131st "	N. 6°15' E.,	10.00	9.94		1.09		
" 132d "	N. 6.15'E.	22.20	22.06		2.42		
" 132d "	N. 45°00'E.	17.80	12.59		12.59		
" 132d "	N. 24°30'E.	40.00	36.40		16.59		
" 133d "	N. 24°30'E.	12.80	11.65		5.31		
" 133d "	N. 38°45'E.	27.20	21.21		17.02		
" 133d "	S. 33°30'E.	15.20		12.67	8.39		
" 133d "	S. 53°30'E.	24.80		14.7619.93			
" 134th "	S. 53°30'E.	40.00		23.7832.14			
" 134th "	S. 10°00'E.	25.70		25.31	4.46		
" 134th "	N. 70°45'E.	14.30	4.72		13.50		
" 135th "	N. 70°45'E.	23.50	7.74		22.19		
" 135th "	N. 81°15'E.	14.00	2.13		13.84		
" 135th "	N. 77°00'E.	22.50		5.0621.93			
" 135th "	N. 81°15'E.	20.00	3.04		19.77		
" 136th "	N. 86°45'E.	13.00	.74		12.98		
" 136th "	S. 66°45'E.	25.40		9.2421.50			
" 136th "	N. 12°15'E.	20.60	20.15		4.37		
" 136th "	N. 7°45'W.	14.60	14.47		1.97		
" 136th "	S. 84°00'E.	8.40		.88	8.35		
" 137th "	S. 84°00'E.	6.40		.67	6.37		
" 137th "	N. 12°00'E.	26.00	25.43		5.40		
" 137th "	N. 53°45'W.	20.10	11.88		16.21		
" 137th "	N. 6°00'W.	19.00	18.90		1.99		
" 137th "	N. 43°45'W.	8.50	6.14		5.88		
" 138th "	N. 12°45'W.	40.00	39.01		8.83		
" 138th "	N. 17°45'W.	26.00	24.76		7.93		
" 138th "	N. 37°00'E.	14.00	11.18		8.43		
" 139th "	N. 37°00'E.	40.00	31.94		24.07		
" 139th "	N. 46°30'E.	4.60	3.17		3.34		
" 139th "	N. 26°15'W.	21.50	19.28		9.51		
" 139th "	N. 20°30'E.	13.90	13.02		4.86		
" 140th "	N. 20°30'E.	5.00	2.81		1.05		
" 140th "	N. 37°45'W.	23.30	18.43		14.27		
" 140th "	N. 53°00'E.	27.70	16.67		22.12		
" 140th "	N. 13°00'E.	16.60	16.17		3.73		
" 140th "	N. 17°15'W.	4.50	4.30		1.33		
" 140th "	N. 26°30'W.	4.90	4.39		2.19		
" 141st "	N. 26°30'W.	10.00	8.94		4.46		
" 141st "	N. 14°00'E.	15.60	15.14		5.77		
" 141st "	N. 37°15'W.	4.40	3.50		2.66		
" 141st "	N. 6°45'W.	29.00	28.80		3.41		
" 141st "	N. 17°15'W.	8.30	7.93		2.46		
" 141st "	N. 10°45'E.	12.70	12.48		2.37		
TOTALS FORWARD,				3723.10	2323.57	674.46	5680.19

LATITUDES AND DEPARTURES OF SOUTH AND WEST BOUNDARY
UINTAH INDIAN RESERVATION

LATITUDES AND DEPARTURES OF SOUTH AND WEST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDE		DEPARTURE	
				N.	S.	E.	W.
				Chs.	Chs.	Chs.	Chs.
Footings Brought Forward,				4409.44	2462.68	1472.58	5757.60
From 156th to 159th N.	N. 82°15'E..	29.00	3.91			28.73	
" "	N. 18°15'E..	11.00	10.43			3.44	
" 159th	160th	N. 18°15'E..	10.00	9.50		3.13	
" "	"	N. 56°00'E..	15.00	8.39		12.43	
" "	"	N. 73°45'E..	15.00	4.20		14.40	
" "	"	N. 83°15'E..	40.00	4.70		59.72	
" 160th	161st	N. 83°15'E..	40.00	4.70		39.72	
" "	"	N. 45°15'E..	11.60	8.16		8.24	
" "	"	N. 64°45'E..	15.10	5.59		11.84	
" "	"	N. 78°15'E..	15.30	5.12		14.98	
" 161st	162d	N. 78°15'E..	10.00	2.03		9.79	
" "	"	N. 19°15'W..	30.00	26.32			9.89
" "	"	N. 8°30'E..	40.00	39.56		5.91	
" 162d	163d	N. 40°45'E..	10.00	7.57		6.53	
" "	"	N. 70°00'E..	4.90	1.68		4.60	
" "	"	N. 83°45'E..	44.90	4.90		44.63	
" "	"	N. 50°15'E..	20.20	12.92		15.52	
" 163d	164th	N. 50°15'E..	28.00	17.91		21.53	
" "	"	N. 81°15'E..	36.30	5.53		35.88	
" "	"	S. 66°00'E..	10.70		4.35	9.77	
" "	"	N. 70°15'E..	4.50	1.52		4.23	
" "	"	N. 6°45'E..	0.50	.50		.06	
" 164th	165th	N. 6°45'E..	13.50	13.40		1.58	
" "	"	N. 19°00'E..	18.00	17.01		5.85	
" "	"	N. 5°00'W..	21.00	20.92			1.83
" "	"	N. 9°45'E..	25.20	24.83		4.27	
" "	"	E. 7°15'W..	2.30	2.28			.29
" 165th	166th	N. 0°15'E..	17.40	17.39			.09
" "	"	N. 65°30'E..	14.60	6.06			13.29
" "	"	S. 63°00'E..	27.10		12.31	24.14	
" "	"	S. 84°00'E..	20.90		2.18	20.79	
" 166th	167th	S. 84°00'E..	7.00			.73	6.96
" "	"	N. 4°45'W..	13.50	13.40			1.12
" "	"	N. 54°00'E..	10.50	6.17			8.49
" "	"	N. 78°30'E..	21.00	4.35			21.35
" "	"	S. 82°30'E..	8.20			1.07	8.13
" "	"	S. 53°30'E..	9.70			5.77	7.79
" "	"	S. 36°30'E..	9.30			7.48	5.55
" 167th	168th	S. 36°30'E..	16.30			15.10	9.70
" "	"	S. 83°30'E..	6.20			.69	6.16
" "	"	S. 55°45'E..	6.20			3.49	5.13
" "	"	S. 33°00'W..	26.60			22.31	14.49
" "	"	S. 46°00'E..	7.30			5.07	5.25
" "	"	S. 7°15'E..	8.90			8.83	1.12
" "	"	S. 69°15'E..	8.50			3.01	7.95
" 168th	169th	S. 69°15'E..	19.90			7.05	18.61
" "	"	N. 89°15'E..	20.10	.26			20.10
" "	"	N. 56°30'E..	40.00	22.08			33.36
" 169th	170th	N. 56°30'E..	37.60	20.75			31.35
" "	"	N. 4°30'W..	40.90	40.76			3.20
" "	"	N. 83°15'E..	1.50	.18			1.49
" 170th	171st	N. 83°15'E..	35.50	4.18			35.26
" "	"	N. 52°45'E..	12.90	7.80			10.27
" "	"	N. 38°15'E..	15.30	12.02			9.48
" "	"	N. 64°00'W..	6.30	2.76			5.66
" "	"	N. 81°00'W..	10.00	1.56			9.88
" 171st	172d	S. 81°15'W..	17.20		2.61		16.99
" "	"	N. 13°00'E..	18.00	17.53			4.05
" "	"	N. 23°30'W..	14.50	13.30			5.79
" "	"	N. 34°45'E..	12.10	9.95			6.89
" "	"	N. 40°45'W..	18.20	13.79			11.88
TOTALS FORWARD,			4887.37	2562.73	2156.58	5824.13	

LATITUDES AND DEPARTURES OF SOUTH AND WEST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDE		DEPARTURE	
				N.	S.	E.	W.
			Chs.	Chs.	Chs.	Chs.	Chs.
				4887.37	2562.73	2156.58	5824.13
Footings Brought Forward,							
From 172d to 173d M.		N. 23° 45' E.	19.00	17.39		7.65	
" "	" "	N. 23° 45' W.	7.10	6.50		2.86	
" "	" "	N. 64° 30' W.	13.90	5.99		12.54	
" "	" "	N. 74° 30' W.	12.50	3.53		12.04	
" "	" "	N. 56° 30' W.	6.90	3.81		5.75	
" "	" "	N. 49° 15' W.	13.10	8.55		9.92	
" "	" "	N. 71° 45' W.	7.50	2.35		7.12	
" 173d	174th	N. 61° 45' W.	16.70	7.90		14.71	
" "	" "	N. 54° 00' W.	29.30	17.23		23.70	
" "	" "	N. 8° 15' W.	6.90	6.83		.99	
" "	" "	N. 28° 45' W.	18.50	16.22		8.90	
" "	" "	N. 82° 00' W.	8.60	1.20		8.52	
" 174th	175th	S. 80° 15' W.	11.80		2.00	11.6	
" "	" "	N. 75° 15' W.	8.50	2.45		8.1	
" "	" "	N. 9° 00' W.	10.60	10.47		1.	
" "	" "	N. 14° 15' E.	24.10	23.36		5.92	
" "	" "	N. 44° 15' W.	9.00	6.45		6.	
" "	" "	N. 76° 45' W.	16.00	3.67		15.5	
" 175th	176th	N. 76° 45' W.	2.60	.60		2.	
" "	" "	N. 57° 30' W.	26.90	14.46		22.	
" "	" "	S. 70° 15' W.	4.70		1.59	4.	
" "	" "	N. 50° 45' W.	11.00	6.96		8.5	
" "	" "	N. 27° 15' W.	19.20	17.07		8.7	
" "	" "	N. 53° 30' W.	7.60	4.52		6.1	
" "	" "	N. 45° 30' W.	8.00	5.61		5.	
" 176th	177th	N. 45° 30' W.	23.50	16.47		16.	
" "	" "	N. 24° 45' W.	7.40	6.72		3.1	
" "	" "	E. 30° 45' E.	21.70	18.65			
" "	" "	S. 50° 15' E.	8.40		5.38	6.46	
" "	" "	S. 70° 45' E.	19.00		6.27	17.94	
" 177th	178th	S. 58° 00' E.	13.96		7.40	11.83	
" "	" "	S. 69° 00' E.	8.90		3.19	8.31	
" "	" "	S. 59° 30' E.	6.45		3.27	5.55	
" "	" "	S. 57° 00' E.	9.40		5.12	7.88	
" "	" "	S. 67° 00' E.	9.27		3.63	8.52	
" "	" "	S. 71° 30' E.	7.70		2.44	7.29	
" "	" "	S. 59° 00' E.	10.44		5.38	8.94	
" "	" "	N. 83° 00' E.	6.48	.79		6.43	
" "	" "	N. 54° 00' E.	7.40	4.35		5.98	
" 178th	179th	N. 54° 00' E.	1.11	.64		.89	
" "	" "	N. 43° 30' E.	6.78	4.92		4.67	
" "	" "	N. 27° 30' E.	5.30	4.70		2.45	
" "	" "	N. 24° 30' E.	15.85	14.40		6.56	
" "	" "	N. 19° 30' E.	17.54	16.52		5.85	
" "	" "	N. 49° 30' E.	13.05	8.46		9.91	
" "	" "	N. 62° 00' E.	20.41	9.58		18.01	
" 179th	180th	N. 62° 00' E.	3.32	1.56		2.94	
" "	" "	N. 38° 45' E.	8.68	6.77		5.43	
" "	" "	N. 51° 45' E.	8.28	5.13		6.50	
" "	" "	N. 50° 45' E.	12.07	7.64		9.34	
" "	" "	N. 40° 00' E.	6.70	5.13		4.31	
" "	" "	N. 13° 15' E.	40.95	39.87		9.40	
" 180th	181st	N. 13° 15' E.	7.72	7.50		1.75	
" "	" "	N. 17° 45' E.	13.42	12.78		4.09	
" "	" "	N. 14° 00' E.	3.61	5.49		.89	
" "	" "	N. 19° 00' W.	7.93	7.50		2.	
" "	" "	N. 23° 00' W.	6.51	5.99		5.83	
" "	" "	N. 26° 30' E.	13.06	11.69			
" "	" "	N. 21° 30' W.	17.30	16.10		6.	
" "	" "	N. 3° 00' W.	9.23	9.21			
TOTALS FORWARD				5326.85	2608.50	2365.20	6065.

LATITUDES AND DEPARTURES OF SOUTH AND WEST BOUNDARY

UINTAH INDIAN RESERVATION

LINE	DESIGNATED	TRUE BEARING	DIS- TANCE	LATITUDE		DEPARTURE	
				N.	S.	E.	W.
				Chs.	Chs.	Chs.	Chs.
	Footings Brought Forward,			5326.85	2608.50	2365.20	6065.01
From 180th to 181st L.		N. 5°30'W.	1.22	1.21			.12
" 181st "	182d	N. 5°30'W.	11.00	10.95			1.05
" "	"	N. 8°00'W.	49.00	48.52			6.82
" "	"	N.31°30'W.	15.10	12.87			7.89
" "	"	N.12°30'W.	4.90	4.78			1.06
" 182d	183d	N.12°30'W.	11.58	11.31			2.51
" "	"	N.18°30'E.	10.80	10.24		3.42	
" "	"	N.14°00'W.	7.27	7.05			1.76
" "	"	N.69°30'W.	10.35	5.62			9.70
" "	"	N.79°00'W.	4.60	.88			4.52
" "	"	N.15°00'W.	12.90	12.46			3.34
" "	"	N. 2°00'W.	9.90	9.89			.35
" "	"	N.62°00'E.	12.60	5.91			11.12
" 183d	184th	N.69°00'E.	22.00	7.89			20.54
" "	"	N.30°00'E.	18.00	15.58			9.00
" "	"	N.58°00'E.	13.80	7.31			11.70
" "	"	N.15°00'E.	12.60	12.17			3.26
" "	"	N.42°00'E.	6.80	5.05			4.55
" "	"	N.86°00'E.	6.80	.47			6.78
" 184th	185th	N.86°00'E.	12.60	.88			12.57
" "	"	N.42°00'E.	5.70	4.24			3.82
" "	"	N.79°00'E.	28.20	5.38			27.68
" "	"	N. 9°15'E.	53.50	33.06			5.38
" 185th	186th	N.15°00'E.	61.30	59.21			15.87
" "	"	N.17°15'W.	18.70	17.86			5.55
" 186th	187th	N.17°15'W.	12.60	12.03			3.73
" "	"	N. 9°52'E.	67.40	66.40			
" 187th	188th	N. 9°52'E.	17.90	17.64			3.07
" "	"	N.79°00'E.	62.10	11.85			60.96
" 188th	189th	N.21°30'W.	80.00	74.43			29.32
" 189th	N.W.Cor.	N.21°30'W.	51.70	29.49			11.62
Uintah Indian Reserva-							
tion.				5847.48	2608.50	257647	6154.35

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PAGE

--LATITUDES AND DEPARTURES OF THE BOUNDARIES OF--

--THE UNTAH INDIAN RESERVATION--

LINE DESIGNATED.	LATITUDES.		DEPARTURES.	
	N. chs.	S. chs.	E. chs.	W. chs.
S. and W. Boundary of Uintah Indian Reservation (Contract No. 264, Brown and Brown, Dep. Surs.)	2608.50	5847.48	6154.35	2576.47
S. and W. Boundary of Uintah Indian Reservation, previously surveyed (Contract No. 221, W. B. Dougall, Dep. Sur.)	2.10	405.00	1346.33	.....
SE. Boundary of Uintah Indian Reservation, (Contract No. 264, Brown and Brown, Dep. Surs.)	438.27	58.73	401.38	91.20
E. Boundary of Uintah Indian Reservation, (Du Bois Survey.)	1658.04	.....	210.35	619.07
E. and N. Boundary of Uintah Indian Reservation (Contract No. 264, Brown and Brown, Dep. Surs.)	3010.13	1396.69	694.33	5462.14
Convergency,	.....	.....	.....	66.70
Totals,	7717.04	7707.90	8806.74	8815.58
Error in lat. and dep.	7707.90	8806.74
	9.14	8.84

For details of latitude and departure tables see books "A" and "B".

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Arthur H. Brown, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the South and West Boundaries of the Uintah Indian Reservation, state of Utah, showing the respective capacities in which they acted:

John W. Chase, Chainman.
J.W. Evans, Chainman.
Frank Bowden, Moundman.
Geo. Mecham, Moundman.
John H. Cook, Axman.
Martin Ford Jr., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Arthur H. Brown, United States Deputy Surveyor, in surveying all those parts or portions of the South and West Boundaries of the Uintah Indian Reservation, state of Utah, of the meridian, of, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor general for Utah.

John W. Chase, Chainman.
J.W. Evans, Chainman.
Frank Bowden, Moundman.
Geo. Mecham, Moundman.
John H. Cook, Axman.
Martin Ford Jr., Flagman.

scribed and sworn to before me this 17th
day of October, 1903.

Arthur H. Brown
N.D. Deputy Surveyor



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Arthur H. Brown, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 20th day of July, 1903, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the South and West Boundaries of the Uintah Indian Reservation,

in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Arthur H. Brown
United States Deputy Surveyor

Subscribed by said Arthur H. Brown and sworn to before me
this 21st day of December 1903

SEAL

Edward H. Anderson
U.S. Surveyor General
for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, December 31, 1904.

The foregoing field notes of the survey of the South and West Boundaries of the Uintah Indian Reservation, State of Utah,

executed by Arthur H. Brown, and Fred M. Brown,
under their contract No. 264, dated July 20, 1903, 189, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor Gen

I certify that the foregoing transcript of the field notes of the above-described surveys in this office, has been correctly copied from the original notes on file in this office.

United States Surveyor Gen

Torplioade

RECEIVED WITH
SUR. ANX'S. LETTER.
FEB 13 1885

Fieldnotes
of the
Survey of the Boundaries
of the
Uncompahgre Ute and
Uintah Indian Reservation

Surveyed by

Daniel C Oakes

Hiram J. Bennett Jr

under
Contract with the Honorable
the Commissioner of the General Land Office

dated

October 14th 1884

Part first

Uncompahgre Ute Indian
Reservation

Volume

#

R0328

James E. May
 I
 mply swear that I will well and truly perform the duties of compass-
 according to instructions given me, and to the best of my skill and
 , in the survey of the Maccapahquellie Montali Indian
 reservations in Utah.

James E. May,
 (Compassman.)

scribed and sworn to before me this 19th day
 October 1884

Fred R. Stewart

Notary Public.

Eli Long, S. C. Smith & D. H. Meenan
 I
 mply swear that we will well and faithfully execute the duties of
 carriers: that we will level the chain upon even and uneven ground,
 bumb the tally pins, either by sticking or dropping the same: that we
 port the true distance to all notable objects, and the true length of all
 that we assist in measuring, to the best of our skill and ability and in
 unce with instructions given us, in the survey of the Maccapahquellie
Montali Indian Reservation in Utah Territory

Eli Long

Chairman.

S. C. Smith

Chairman.

D. H. Meenan

Chairman.

scribed and sworn to before me this 19th day
 October 1884

Fred R. Stewart

Notary Public.

Alex Stevens & Howard F. Ellis
 I
 mply swear that we will well and truly perform the duties of axemen,
 establishment of corners and other duties, according to instructions
 and to the best of our skill and ability, in the survey of the Maccapahquellie
Montali Indian Reservation in Utah

Alex Stevens

Axeman.

Howard F. Ellis

Flagman.

scribed and sworn to before me this 19th day
 October 1884

Fred R. Stewart

Notary Public.

From the cor. to sec 24. 20 1/2 E.
on West Boundary of T. 6 S. R.
24 E. S. L. M. which is a
Sandstone 13 X 7 X 6 ins. in ground
of earth designated as the initial
point of this survey line.

S. on true line

Var. 14° 30' E.

1st Mile.

Producing township lines from
back sights.

Set sandstone 14 X 12 X 6 ins. mark-
ed N. E. I. R. on N. side

I. M. on N. and P. L. on E. sides
8" in ground. dug into 24 X 15 X
12 ins N. E. S. W. 6 feet from
stone. raised mound of earth
3 feet high 5 feet base longe stone.
This mile is over a gently rolling
prairie with no marked topog-
raphy.

It is covered with a thin growth
of bunch grass and small sage
Soil good rate.

Scattering cedar.

2nd Mile.

South on true line

Var. 14° 30' E.

Set sandstone 15 X 12 X 6 ins. in
ground. marked N. E. I. R. on
N. & M. on N. and P. L. on E.
sides. with 6 notches on all four
sides.

Raised mound of stone
2 feet high alongside.

Pits impractical.

This being the S. W. cor. for town-
ship 6 S. R. 24 E. S. I. G.

Surface nearly level

Bunch grass and sage
Soil 2nd rate.

3rd mile.

The line now runs due East
following the S. Boundary of
Twp. 6 S. of R. 2⁴ E. I therefore
run it parallel to the line
already run between Secs 19 and 30.
East on a true line.

Var. 14° 30' E.

- S. 07 Set sandstone 15 x 9 x 3 marked
U.L.I.R. on South P.L. on N.
3. M. on W.
Bldg. into 24 x 18 x 1.2 on N and
S. E. and W. & cut from corner.
Raised mound of earth 3 ft.
high 5 $\frac{1}{2}$ feet base alongside.
Soil 2nd rate.
surface rather billy.
Vegetation mostly sagbrush and
scrub cedars.
No timber.

4th mile.

East on a true line.

Var. 14° 30' E.

- 3307 Bottom of sharp ravine course
S. 35.
- S. 08 Set sandstone 18 x 6 x 6 ins marked
U.L.I.R. on South P.L. on N & M.
on SE side.
Raised mound of stone 2 $\frac{1}{2}$ ft.
high alongside.
Surface billy.
Soil 2nd rate.

Vegetation sage and stunted grass.

5th mile.

Cacti on a true line.

Lat. 36° 16' 30" E.

Bottom of ravine course S.
thence C. & S. between hills.

Set Sandstone 16 X 14 X 8 in marked
21.11 ft on South Pl. on N.
5 M. on N. side.

Raised mound of stone alongside
surface of ravine hills.
Soil rough and broken.
Soil thin and filtrates quickly

4th mile.

Cacti on a true line

Lat. 36° 17' 30" E.

Top of flat arid mountainous
hills nearly south.

Scattered cacti on mountain and
desert.

Gulch course S.E.

Set Sandstone 21 X 13 X 7 in marked
21.11 ft. on South Pl. on N.
6 M. on N. side.

Raised mound of stone along
side in thickets of small cactus
Soil mostly 3 ft. slate
Surface mountainous.

A few cedar scattered on hill
sides. Oct. 20th 1884.

395

7th Mile.

East on a true line.

Var. 16° 30' E.

- 19.30 Rocky gulch course N. W.
47.00 Enter scattered cedars.
62.00 Leave scattered cedars at top
of ridge bears S. E. and N. W.
5.000 Set volcanic stone 24 x 16 x 4 ins.
marked N. N. I. R. on South
P.I. on N. T. M. on W. side.
Raised mound of stone along
side.
Surface mountainous.
Soil 2nd and 3rd rate.
Scattered cedar, sagebrush and
stunted grass.

8th Mile.

East on true line.

Var 16° 30' E.

- 28.00 Rocky gulch course S. E.
37.50 4 chs. N. of line a cliff of
rocks 40' high at S. pt. of
mountain.
53.60 Gulch course S. W. has the
appearance of being wet in
the spring. is more dry.
80.00 Set a Sandstone 19 x 13 x 4 ins.
marked N. N. I. R. on south
P.I. on N. T. M. on W. side.
Raised mound of stone alongside
from which an aspen 3" diam.
bears S. 18° 30' W. 94 lks distant
marked N. N. I. R. B.T. other trees
too small to mark.
Surface mountainous.
Soil 3rd rate
scattered cedars and aspen Sage-
brush.

9th Mile 2 Var. $16^{\circ}30' E.$
 573- Gulch course S. E.
 200 " " S. W.
 these two gulches come together
 10 or 12 chs. below line
 Enter high, nearly level plateau
 N. and S.
 0.00 set sandstone $1.5 \times 7 \times 4$ ins mark-
 ed U. U. I. R. on south P.I. on
 N. 9 M. on W. side from
 which a cedar bears N. $30^{\circ} W.$
 2.80 chs. dist. marked P.I. 9 M
 B.I.
 Surface hilly for $1\frac{1}{2}$, level 2nd
 half.
 Soil 3 rate.
 scattered cedars and sagebrush
 on first half. Last half open.

10th Mile.

East on true line.

Var. $16^{\circ}30' E.$

0.00 set sandstone $12 \times 10 \times 8$ ins mark-
 ed U. U. I. R. on South P.I. on N.
 10 M. on W. side.
 Large pits $18 \times 1.8 \times 1.2$ ins E. and W.
 of stone $5\frac{1}{2}$ ft. dist. Raised mound
 of earth $\frac{1}{4}$ ft. high. $3\frac{1}{2}$ ft. base
 alongside.
 Surface nearly level
 High Mesa.
 Soil 2nd rate.
 Sagebrush and light grass.

11th Mile
East on a true line
Var. 16' 30" E.

8000 set Sandstone 14 x 6 x 3 ins marked
ed N. N.I.R. on South P.I. on
R. 11 M. on W. side
Raised mound of stone alongside.
Surface nearly level plateau
soil 2nd rate.

13th Mile
East on a true line

Var. 16' 30" E.

8000 set Sandstone 13 x 5 x 3 ins. marked
ed N. N.I.R. on South P.I. on
R. 12 M. on N. side dug pits
18 x 18 x 12 ins. E. and E. of stone
5½ ft. dist. Raised mound of
earth 2 ft. high 3½ ft. base
alongside.
Surface gently undulating
prairie.
Soil 2nd rate.
Sagebrush and bunch grass.

13th Mile.
East on a true line

Var. 16' 30" E.

8000 set Sandstone 14 x 7 x 4 ins.
marked N. N.I.R. on South
P.I. on R. 13 M. on W. side
dug pits 18 x 18 x 12 ins. E. and
W. of stone 5½ ft. dist. Raised
mound of earth 2 ft. high 3½
ft. base alongside.

Surface gently undulating
with small hills with cedar
timber on them N of line.
Soil 2nd rate.

Sagebrush.

Oct. 21st, 1864.

14th Mile
East on a true line

var. 16° 3.0' P.

Set sandstone 10 x 10 x 8 ins. mark-
ed U. U. I. R. on South P. I. on
N. 14 M. on W side.

Raised mound of stone along-
side.

Surface nearly level.

Soil 2nd rate.

Sage and light grass.

Being now by calculation
near the Bdy. line of Utah
and Colorado I proceeded to
search for the same.

Referring to the field notes
of the Bdy. survey I find in
the 221st mile at T P. on summit
of small rocky hill which
is about the highest point on
the open plateau called
"Raven Ridge" ascending a slight
eminence about 1/2 mile East
of my last corner I can see
a small wooded hill about
3 miles distant and a little West
of South. Keeping this hill in
view I work it until I reach
a point due N from it.

I then search carefully along the line and for a considerable distance on either side I ran thus to the hill mentioned finding no monuments but on the hill itself I found some cut branches of the small cedars indicating the crossing of the line.

As this point is noted at 12.63 chs. in the 221st mile I chain carefully N.

Var 16° 30' P.

6750 Find a sandstone lying on the ground properly marked for 221 mile stone.

I now continue N. chaining carefully to the 224th mile stone which is nearest to the last corner of my own line.

NOTE.

It is exceedingly difficult to find the small stones set on the Boundary line on this plain where among the sage-brush the searcher may pass within a very few feet of one without seeing it.

The earth mounds have entirely disappeared and but faint signs of the pits remain.

Planting a flag at the 224th mile stake I return to the 14th mile corner of my own work. Having run 1.3 miles of line due East I offset tangent N. 12.5- E. 1.3 and run trench

15th mile

East on true line

Var 16° 30' P.

400

27.32 intersect Utah Colorado boundary
line at a point 12.64 chs. N. of
224th mile stone of said line at
which point plant sandstone
22x14x4 ins. marked P.I. Colo. on
E. face U.T. and U.U.I.R. on W.
face in large mound of stones
for N.E. corner of Uncompahgre
Ute Indian Reservation.

October 22^d, 1884,

The two following days are devoted
to moving camp from Cliff
creek to White river as there is
no water between the two points.

From intersecting monuments
at N.E. cor. of reservation.

I run S. following the Utah Col-
orado Boundary line.

7.32 The intersecting monument being
27.32 chs. in 18th mile
9.96 224th mile stone of Boundary
Survey.

000. Set Sandstone 34x6x6 ins. 15 lbs.
in ground marked U.U.I.R. on
W. P.I. on E. 15 M. on N sides.
dug pits 24x18x12 ins. N. and
S. of stone 6 ft. distant. Raise
mound of earth 2 ft. high 4 1/2
ft. base alongside.

Surface rolling plain.

Soil poor second rate.

Sagebrush and thin grass.

16th Mile

South of trail line

Var. 16' 30" C.

With stone set 200 ft. 3 miles crossing
lying on ground, which break
in front of stone. Stone flat
and trunks N. and S.

First set sandstone 9 x 12 x 5 ins.
laid on ground marked 26. 16.
I.R. or W.F.I. or C. 16 M.L. on
N. side. Raised mound of stone
along side.
Surface nearly level.
Soil 2 m. rate.
Sagebrush and light grass.

17th Mile

South of trail line

Var. 16' 30" C.

With 200 ft. 3 miles stone of boundary
curred in place.
First set sandstone 9 x 8 x 2 ins. laid
on ground marked 26. 16. I.R. or
W.F.I. or C. 17 M.L. on N. side.
Stone flat 18 x 8 x 12 ins. N. and
S. ft. stone 5 1/2 ft. distant.
Raised mound of earth 2 1/2 ft.
high, 4 1/2 ft. far along side.
Surface gently undulating.
Soil 2 m. rate.
Sagebrush and fair grass.

18th Mile

South of trail line

Var. 16' 20" C.

- 3402
- 3990 2.2 miles stone. Lying on ground which I reset and build mound of stone alongside.
- 500 Enter scattered cedars on small hills.
- 1000 Set sandstone 21 x 13 x 6 ins. 10 ins in ground marked N. N. I. R. on W. P. I. on C. 18 M. on N. sides. corner stands in opening in cedars on S. slope of hill. Surface low rocky hills covered with scattered cedars. Soil 2nd and 3^d rates.

19th mile
South on true line

Var. 16° 30' P.

- 800 top of rocky hill mentioned as the one by which the line was discovered.
- 9.83 2.2 miles stone of boundary survey in place.
- 000 Leave cedars and enter open sage plain.
- 300 Small ravine or draw. course S. W.
- 100 Set sandstone 17 x 13 x 6 ins. 10 ins in ground marked N. N. I. R. on W. P. I. on C. 19 M. on N. sides. dug pits 18 x 18 x 12 ins. N. and S. of stone 5 1/2 ft. dist. Raised mound of earth 2 ft. high. 8 1/2 ft base alongside. Surface hilly. Soil 3^d rate. Stunted cedars and sagebrush.

October 20th, 1884.

8000 Set sandstone 12 X 12 X 2 ins.
10 ins. in ground marked U.U.
I.R. on W.P.I. on C. 2 2 M
on N side. Raised mound
of stone alongside.
Surface level sageplain
Soil 2nd rate.

2 3rd Mile

South on true line

Var. 16° 30' E.

39.90 216th mill cor. of boundary
Survey in place.

5000 Set sandstone 20 X 8 X 5 ins. 10 ins.
in ground marked U.U.I.R.
on W.P.I. on C. 2 3 M. on N.
side.
Dug pits 18 X 18 X 12 ins. N and
S. of stone 5 1/2 ft. dist. Raised
mound of earth 2 1/2 ft. high
3 1/2 ft. base alongside.
Surface nearly level sageplain
Soil 2nd rate.

2 4th Mile

South on true line

Var. 16° 30' E.

9.40 Old trail bears N.W. and S.E.
4000 No signs of 2 1/2 mile stone of
Boundary survey to be found.

5000 Set sandstone 18 X 9 X 4 ins.
10 ins in ground marked U.U.
I.R. on W.P.I. on C. 2 4 M on
N side. Dug pits 18 X 18 X 12 ins.
N and S. of stone 5 1/2 ft. dist.

Raised mound of earth 2 1/2 ft
high 3 1/2 ft. back alongside.
Surface level sageplain.
Soil 2nd and 3rd rates.

25th Mile

South on true line

Var. 16' 30" P.

39.96 2 1/4 mile cor. of boundary
Survey in place.
C. & C. set Sandstone 20 x 8 x 5 ins.
16 ins. in ground marked W. I.R.
on W. P.I. on E. 2 1/2 ft. on
N. side. Raised mound of stone
alongside.
Surface level sageplain
Soil 2nd rate.

26th Mile

South on true line

Var. 16' 13" P.

44.76 The boundary survey cor. found
C. & C. set Sandstone 15 x 7 x 7 ins. 16 ins.
in ground marked W. I.R.
on W. P.I. or E. 2 1/2 ft. on N.
side. Raised mound of stones
alongside.
Surface rolling open sageplain
Soil 2nd and 3rd rates.

27th Mile

South on true line

Var. 16' 21" P.

39.80	212 th mile stone of boundary Survey in place.
54.00	Bottom of small canon or rocky ravine course S. W.
7000	This point coming just at the edge of a sandstone ledge on N. side of a small canon. I mark this cor. by chiseling at with U. U. I. R. G. T. N. on S. face of rock.
	Surface broken
	Sagebrush and bunchgrass.
	Soil 3 rate

2.8th Mile

South on a true line

var. 16° 25' E

8.75	Bottom of rocky-ravine course S. W.
4.00	211 mile stone of Boundary Survey in place.
51.00	Bottom of rocky canon course S. W.
62.00	Astronomical Station of By. Survey in place. Beyond this station for 19 miles no marks were set on Boundary line. To ascertain distance to oppo- site side of White River canon Send Flagman to point in line on south side and from astro- nomical station lay off base dil. W. 29 chs. at which point I find angle to be $78^{\circ} 10'$ and angle alt flag to be $11^{\circ} 50'$



A. ast. Sta.

A. B. base 290ds

C flag Sta.

$$100 \cdot 290 = 1463980$$

$$100 \tan 11^{\circ} 50' = 9.32122$$

$$100 \cdot 9.32 = 932$$

$$\text{A.C. } 138.39$$

$62.00 + 138.39 = 2$ miles 40.39 chs.
or 29 miles 40.39 chs. of my line
Having firmly planted the flag
at C. I now proceed to
measure S. from astronomical
station (62.00 of 28 mile) descending
an exceedingly rough hill 7000
to 900 feet to the White river
valley.

- 75.00 Ledge of rock at edge of plateau
5'-0" high perpendicular.
8000 Set Sandstone block 9.3 x 1.2 x 1.2
ins. marked U. N. I. R. on W. P. I.
on E. 2.8 N. on N side.
Soil of this mill very poor, bed
rock showing in many places
surface broken.
A few scattered cedars on hills.

29th Mile

South on true line

Var. 16° 15' E.

- 54.00 Foot of hill Enter valley of
White River.
59.00 A large Indian trail passing
near this point I set a sand-
stone block 3.0 x 1.2 x 1.0 ins. mark-
ed U. N. I. R. P. I. in mound of
stone 5' diam. 4' high from
which a cross cut on a rock
7' x 5' x 5' bears 72.79° 30' W. 305° chs.
dist.

Q150	Large Indian trail bears E. and W.
76.95	Right bank of White River 125-lbs. wide course West.
8000	Set sandstone 3.5 x 14 x 3 ins. 10 ms. in ground marked U.U. I.R. on W. P.I. on E. 29 NT on N. side. Raised mound of stone alongside. Surface in valley level. Rest very rough. Soil in Valley 1 st rate Rest 4 th rate. A few groves of cottonwood grow along the river and Stunted cedar on hill side.

At this point I was met by
Chief Sah-jah wanero of the
Uncompahgre with his interpre-
ter and two other Indians.
He demurred in the strongest
terms to this location of the
reservation boundary, which
he claimed was some 15 miles
farther East.
He seemed to think I was em-
powered to locate the line
wherever I chose and it was
only after several hours of
talking that he became satisfied.

30th Mile

I now ascend to my flag station
on south bank of Colorado.

- 410.39 and run thence south on true line Var 16° 15' C.
- 8000 Set Sandstone 16 X 14 X 12 ins
10 ins. in ground marked W. I. R. on W. P. I. on E. 90° N on N. side. Raised mound of stone alongside.
Surface $\frac{1}{2}$ ascending precipitous slope of canon $\frac{1}{2}$ nearly level plateau.
Soil of this mile 3rd rate.
Stunted cedars on $\frac{1}{2}$ Sage over rest.

31st Mile

South on true line

Var 16° 15' C.

- 1905 Edge of deep Canon course W.
Triangulate to flag placed in line on S. edge.
Base 5 chs. East.
Angle at flag 12° 02'
Dist. 23.47 chs.
 $19 + 23.47 = 42.47$
- 8000 Set Sandstone 16 X 14 X 4 ins. marked W. I. R. on West P. I. on E. 31° N on N. Raised large mound of stone.
Surface rolling plateau cut by canon. Soil 2nd rate.
Sage brush

32nd Mile.

South on true line

Var 16° 15' C.

1300 Edge of deep cañon course W.
then triangulate.

Base due E. 10 chs.

Angle at flag on opposite
side of cañon $13^{\circ} 08'$.

Dist. to flag 41.36.

$$54.36 - 13 + 41.36 = 54.36$$

6500 top of bare conical hill from
which the country for 2 or 3
miles to the east can be plainly
seen as it is cut by a great
number of deep cañons which
render chaining with any
degree of accuracy impossible.
I determined to carry the line
from this point by triangulation
until the character of the country
changes.

The Topographical features of
this plateau are very monotonous
and no point of sufficient
prominence to be certainly re-
cognized can be found on the
line but I find a bare cone
shaped butte or lone mountain
of peculiar light gray tint at
some distance East of the line.
I therefore triangulate from
this point (6500 in 3.2 miles) to
the Butte as follows.

From this station the centre of
Butte bears $85^{\circ} 02'$ East Gray
off Base N. $84^{\circ} 58'$ E. 80 chains.
From East end of this Base
the Butte bears $80^{\circ} 21'$ E. from
which I have angle at
Butte $4^{\circ} 40\frac{1}{2}'$

80 chs. B. N. E.
A. S. S.

$$A.B = 80 \text{ chs.}$$

$$\text{angle } C.A.B = 90^\circ 00'$$

$$A.B.C = 65^\circ 20'$$

$$A.C.B = 44^\circ 40'$$

$$\log 80 = 1.90309000$$

$$\log \tan 44^\circ 40' = 8.9129243$$

$$\log A.C = 2.99030557$$

$$A.C = 978.06 = 12.971.1814 \text{ chs.}$$

The Latitude and departure
of this line is.

$$S.5^\circ 02'E. = 974.29 - 85.81$$

$$974.29 \text{ chs.} = 12.14.29 \text{ chs.}$$

$$\text{add } 31.65$$

$$43.7929$$

Having thus distinctly located
this Butte with reference to my
line. I now move camp up
Evacuation creek an estimated
distance of 18 or 19 miles and as-
cending out of the canon find
the Butte above referred to bearing
N.E. As its shape is so marked
by conical I conclude the error
will be very slight in taking
its summit as before as a point
from which to work.

Selecting a point on the mesa
from which a base can be
conveniently laid off. I proceed
as follows T.P. a stake from
which the Butte bears N. 61° 28'
E. lay off base S. 28° 32'E.
25 chs. from S. end of which
Butte bears N. 52° 28'E. making
angle at Butte 90°

$$\text{Base } 25 \text{ chs.}$$

$$\text{Angle } 90^\circ$$

Dist. from T.P. 157.84 chs.

then

$$N. 61.28'E. 157.84 = 75.39 \text{ N. } 138.67$$

The Southing of the Butte having been ascertained to be 23.79.24 Add the Northing 76.34 chs. and we have for Southing of present C.P. 44 miles 74.58 chs. And as Casting of Butte was found to be 53.81 chs. deduct this distance from present Casting 138.67 chs. and we have present T.P. 33.86 chs. W of true line I therefore run from T.P. due East Var. 15° 15' E.

53.86 to a point on true line thence S. 5.42 chs. and set Sandstone 17x12x5 mto. marked N. E. I.R. on N. F.I. on E. and 45 cft. on N. side Raised mound of stone along side.

The country traversed by the last 14 miles is utterly worthless being as far as can be ascertained entirely destitute of water, it is traversed at frequent intervals with deep dry cañons impassable except by most circuitous routes. It is never visited even by Indians.

46 3/4 Mile
South on true line

Var. 15° 15' E.

39.07 Edge of cliff. thence descend toward Evacuation creek.
Set Sandstone 15x12x3 mto.
16 mto. in ground marked N.E.I.R.

on W.P.I. on E. 46 N. on N. side
 Raised mound of stones alongside
 Surface 1/2 level sage plateau
~~2/3 rocky, descend southward~~
 Soil 2nd and 3rd rates
 Scattered cedar on hill side

47th Mile
 South on true line

Var. 15° 15' P.

8000 Set Sandstone 19 x 13 x 5-in. 10 ins
 in ground marked in 21 I.R.
 on W.P.I. on E. 47 N. on N.
 side. Raised mound of stone
 alongside
 Surface rough descend S. W.
 Soil 4th rate. Rocky.

48th Mile

45.75 Excavation creek along
 course N. W.

Referring to notes of Boundary
 Survey & find 19.1 mile from
 falls in creek and witness cor.
 set 24.90 N. To find this cor.
 I measure back above dist
 after a brief search find the
 same.

33.32 The stone lying on ground
 but probably at or very
 near original place I reset
 stone and build mound of
 stone alongside. I now find
 that my line is 29.1 lbs. W.
 of Boundary Survey line and
 that my distance from Astronomical
 Station N. of White river

to 191 mile corner is 19 miles
6 chs. 22 chs. the discrepancy
of 8.15 chs I do not attempt to
account for except on the
ground of different methods
employed.

I never send back and correct.
Bed of evacuation creek dry
course N.W.

48.22 Set Sandstone 18 x 6 x 6 ins. 10 ins
in ground marked T.L.T.R.
on W.P.I. on C. 48 MT on N
side. Raised mound of stone
along side. Soil in valley good.
Sagebrush. Scattered Cedars
on hills.

49th Mile

South on true line

Var. 15° 15' E.

29.00 top of high hill
47.90 190 mile stone of Boundary
Survey in place
8.000 set sandstone 21 x 13 x 6 ins
10 ins. in ground marked T.L.T.
T.R. on W.P.I. on C. and 49 MT.
on N side

Raised mound of stone along
side.

Surface hilly

Soil 3rd rate

Sagebrush

30th Mile

South on true line

Var. 15° 02.0' E.

- 3.00 Leave top of Mesa and thence along rocky hillside sloping West N. Boundary cor. found in this mill.
- 8000 Set sandstone 2.4 X 1.3 X 7 ins 10 ins in ground marked H.U. I.R. on W.P.I. on E. 5° NI. on N side. Raised mound of stone alongside. Surface broken and rocky soil 3rd rate. Sage and scrubby cedars

51st Mile

- 41.80 South on true line
Branch of evacuation course N. E. 10° S. Var. 15° 15' Q.
- 48.15 188 mile cor. of Boundary Survey mark on large Boulder
- 8000 Set sandstone 1.6 X 6.8 X 6 ins 10 ins in ground marked H.U. I.R. on W.P.I. on E. 51 NI. on N side. Raised mound of stone alongside. Surface rough hill side. Starting East side of evacuation valley Scattered cedars on nearly the whole mill.

52nd Mile

- South on true line
Var. 15° 20' Q.
- 8000 Set sandstone 2.1 X 1.8 X 6 ins 10 ins in ground marked H.U. I.R. on W.P.I. on E. 52 NI. on N side. Raised mound of stone alongside.

No Boundary monument found
Surface rough side hill
sloping W.
Soil 3rd rate.
Stunted cedars and sage

53rd Mile
South on true line

Var. $15^{\circ} 15' E.$

49.16 18.6 mile stone of Boundary
Survey in place.

8000 Set sandstone 19x8x9 ins.
10 ins. in ground marked U.U.
I.R. on W.P.I. on P. 53 M. on
N. side. Raised mound of stone
alongside.
Soil 3rd rate.
Scrubby cedars and a few pines
Surface rough.

October 29th 1884

54th Mile
South on true line

Var. $15^{\circ} 15' E.$

49.00 18.5 mile corner on Boundary
found.

8000 Set sandstone 22x11x9 ins.
10 ms in ground marked U.U.
I.R. on W.P.I. on P. 54 M.
on N. side. Raised mound
of stone alongside.
Surface rough side hill slopes
W. Soil 3rd rate
Several unimportant gulches
crossed. Scrubby cedar and pine

55th Mile

South on a true line

var. 15° 13' P.

- 4900 18.4 mile cor. of Boundary
Survey in place
Set Sandstone 2.0 x 9 x 8 ins.
marked H. H. I. R. on W.
P.I. on E. 55° N. on N. edge
Raised mound of stone along-
side.
This mile runs along foot of
high hill and just above E.
side of valley.
very little timber.

56th Mile

South on true line

var. 15° 20' P.

- 5000 Begin to ascend Rough hill
valley trends S. W. away from line.
8000 Set Sandstone 2.1 x 8 x 5.5 ins.
10 ins. in ground marked H. H.
I. R. on W. P. I. E. 56° N. on N.
side. Raised mound of stone
alongside.
This cor. stands on N. W. side
of small gully course N. E.
Surface rough,
Soil 3rd rate.
Scattered timber.
No boundary monument found.

57th Mile

South on true line

var. 15° 25' P.

1400 Low ridge bears E and W.
 8000 Set Sandstone 34 x 12 x 8 ins.
 10 ins. in ground marked N.W.
 I.R. on West P.I. on E. and
 57 N. on N. side. Raised mound
 of stone alongside.
 No boundary monument found.
 Soil 3rd rate.
 Surface hilly.
 Some scrub oak on East 1/2.

58th Mile
 South on true line

Var. 15° 15' E.

1400 Sharp deep gulch course W.
 46.50 N. edge of deep canon. Trench
 triangulate to flag planted
 in line on S. brink of canon.
 Base due East 10 chs.
 Angle at flag 9° 20'
 Dist. 60.79
 Now chain down into canon
 Set Sandstone 32 x 13 x 6 ins.
 10 ins. in ground marked N.
 N.I.R. on W.P.I. on E. and
 58 N. on N. side. Raised mound
 of stone alongside.
 Did not find Boundary
 monument.
 Surface rough and broken
 scrub cedar on sides of canon.

59th Mile
 South on true line

Var. 15° 15' E.

- 1.35. Small stream 5' Chs. wide
course N. W. Now ascend without
chaining to flag on mesa.
2729 Flag on S. edge of canon.
4875 180 mile cor. of boundary
survey in place.
8000 Set Sandstone 14 x 6 x 3 ins.
10 ins. in ground, marked U.I.R.
on W. P.I. on E. 5°
M. on N. side. Raised mound
of stone alongside.
Line plainly marked through
cedar thicket.

60th Mile

South on true line

Var. 15° 15' E.

- 8000 Set cedar post 6 feet long
6 ins. square, 2 ft. in ground
marked U.U.I.R. on W.P.I. on
E. 60 M. on N. side.
Flag pits 24 x 18 x 12 ins. E. and
W. of stake 6 feet distant.
Raised mound of earth around
post 2 ft. high 5 feet base.
Surface rolling plateau.
Soil 2nd and 3rd rate.
Scrub cedars with sage in
openings.
No boundary monument found

61st Mile

South on true line

Var. 15° 15' E.

- 1800 Brink of wide canon bears West,
dry water course in canon course
W. Water found in pools below

- 67.50 South brink of canon.
This canon though deep is not so difficult to cross as most of them and the line was chained across.
- 8.000 Set sandstone 18 x 6 x 6 ins.
10 ins. in ground marked N. U.I.
R. on W. P.I. on E. 61 M.I. on
N. side. Raised mound of
stone alongside.
Soil 3rd rate, except a narrow
strip of good land in canon
Cedar and sage.

October 30th 1884.

- 62nd Mill
South on true line
Var. 15° 20' E.
62.00 Descend rocky bluff to canon
8.000 Set sandstone 15 x 12 x 6 ins.
10 ins. in ground marked N. U.
I.R. on W. P.I. on E. and
62 M.I. on N. side.
Raised mound of stone along-
side.
Surface rolling mesa.
Canon covered with scrub cedar.
Soil 3rd rate.

- 63rd Mill
South on true line
Var. 15° 20' E.
This mill is wholly in the
canon which is very wide.
8.000 Sets sandstone 2.8 x 16 x 5 ins.
marked N. U. I.R. on W. P.I. on
E. and 63 M.I. on N. side.

Raised large mound of stone
alongside, cor. at foot of hill
S. side of canon.
Surface gentle descent S.W.
Soil 3rd rate.

64th mile

South on true line

Var. 15° 13' E.

9,000 Dry watercourse course S.W.
7,100 S. Edge of canon enter high mesa
8,000 Sat. Sandstone 2.1 X 1.3 X 4 ins.
10 ms. in ground marked 7,100.
I.R. on W. P.I. on E. 64th M. on
N. side. Raised mound of stone
alongside.
Surface broken.
Soil 3rd rate.
Scrub cedar on side hill.
Sage on rest.

65th mile

South on true line

Var. 15° 13' E.

3,500 N. edge of canon course S.E.
the country beyond this point
is so badly broken by sharp
canons that chaining is next
to impossible. I find however,
that a canon runs southward
about 1 mile East of the line
and I decide to run down it
until I pass the broken country
or reach the neighborhood
of the S.E. corner of the
Reservation.

Selecting as an objective point in this canon a lone cedar at the mouth of the side canon just before me. I triangulate to it as follows:

Course to tree S 37° 20' E

Base N 52° 40' E. 8.00 chs.

Angle at tree 8° 40'

Dist. from I.P. to tree 52.40 chs.
now descend to tree which we
trim up and blaze and run
thence by courses and distances
Vernier readings checked by
needle readings.

Var. 15° 15' E.

from 64 mile stone

Course	Dist	N.	S	E.	W.
South	35.00		35.00		
S. 37° 20' E.	52.40		41.66	31.78	
S. 17° 30' E.	160.00		152.69	48.11	
S. 22° W.	25.00		23.18		9.36
S. 9° E.	100.00		98.77	15.67	
S. 30° W.	50.00		43.30		25.00
Thence up side canon					
N. 60° W.	70.00	35.00			40.62
totals		35.00	394.60	95.93	94.98

S. 394.60 - 35.00 = 359.60 = total southing
 E. 95.93 - 94.98 = 0.55 total Easting
 or the last station is 0.55 East
 of line.

The total distance to be run
 on the Colorado Utah Boundary
 being 54 miles and I began
 on it at 14 miles 27.32 chs.

The S. E. cor. of the Reservation
 must be at 68 miles 27.32 chs.

Hence from the 94th Mile stone to S. E. cor. of Reservation is 4 miles 27.32 chs. or 347.32 chains.

The true position therefore for this cor. will be 2.28 chs. N. and 0.55 chs. W. of last station of angle line.

Laying off this dist. I set sand-stone 3.0 x 1.2 x x 1.2 ms. 10 ms. in ground marked U. S. I. R. South East cor. 1884.

Raised mound of stone along side for S. E. cor. of Uncompahgre Mts. Indian Reservation.

This corner stands in side canon course S. E.. The country all about is most desolate being nearly destitute of water, it is abandoned even by wild animals and being traversed in every direction by deep and often impassable Canions, is not traversed by roads or trails.

October 31 1884

From S. E. cor. of Reservation 68 miles 27.32 chs. from initial point I run W. on true line continuing 69th mile.

var 13° 20' E.
58.32 Rock ridge at edge of plateau bears S. E. and N. W. thence ascend toward Ridge.

8100 Set. Sandstone 16 x 12 x 8 ins.
10 ins. in ground marked N.
I.R. on N.P.I. on S. 69° N.
on E. Raised mound of stone
alongside on E. slope of ridge.
Soil 3rd rate.
Surface broken and bare.

70th mile
West on true line

Var. 15° 20' E.
1875 Sharp bare ridge bears S. E.
2000 Set. Sandstone 29 x 11 x 9 ins.
10 ins. in ground marked N. W.
I.R. on N.P.I. on S. 70° N.
on E. side. Raised mound of
stone alongside near foot of
W. slope of ridge.
Soil 3rd and 4th rate shaly.
Surface broken. General slope
of country.
A few scrub cedars on East 1/2

71st mile
West on true line
Var. 15° 25' E.

1230 Sharp deep ravine or gulch
course S. W.
5150 Gulch course S. E. and ascend
ridge.
7980 Ridge bears nearly S.
8000 Set. shale stone 28 x 13 x 6 ins.
10 ins. in ground marked N. W.
I.R. on N.P.I. on S. and 71°
N. on E. side.

Raised mound of shale
stones alongside.
Surface broken south
slope of mountains.
marlly barl.
Soil 3rd and 4th rate.

From this ridge I can see the
country for several miles.
The Little runs along the southern
slopes of the
Book Cliffs which are scored
at frequent intervals with deep
gulches separated by high ridges
many of them with smooth sides
covered with slides of disintegra-
ted shale absolutely impossible
to climb.

After an extended reconnoiter
I decide to carry the line
around on the edge of the
great cliffs where compara-
tively passable ground may
be expected since it is
really the crest of a great
divide.

therefore from a transit point 8.50 chs West of 71 st. mill stone lay off a base N 7° 30' E. 400 chs. long and from this triangulate to a sharp well defined point on top of a very prominent mountain at edge of cliffs as follows:



Base N 7° 30' E. 400 chs

angle at I.P. 63° 55'

angle at C = 110° 03'

angle at point on mountain 63° 27'

from which I get

dist. T.P. = 271.90 chs

I now ascend the summit of the cliffs with great difficulty and going around the mountain mentioned

established a I.P. at a point due W. from the point used in above triangulation.

From this I.P. lay off base due N. 20 chs. from which triangulate to point on mountain as follows:

Base 20.00 chs.

angle at N. end of base 83°

3° 6' angle at point of mountain

6° 24' from which dist. I.P. to mountain 17.817 chs.

Normal 1" 1.884

The two following days were devoted to moving camp from West Salt Creek to a spring of which the Indian told me in a canon some 11 or 12 miles N. of this I.F.

Beginning again at the last named I.F. I run by courses and distances following the general line of the divide to complete the angle line.
I repeat courses and distances from 71st mile stone.

course	dist.	N.T.	S.	E. W.
West	8.60			8.60
N. 37° W	271.90	217.14		143.43
East				
West	178.88			178.88
S. 72° W	190.00		58.71	180.71
S. 86° 10' W	230.00		14.72	249.48
S. 65° 25' W	140.00		90.82	131.73
N. 85° 40' W	110.00	8.31		109.68
S. 86° 15' W	110.00		9.14	109.81
S. 57° W	30.00		16.34	25.41
		225.40	191.73	1157.35
South			337.3	
		225.40	225.40	

To a point in line.

$$1157.35 \text{ chs.} = 14 \text{ miles } 37.35 \text{ chs.}$$

$$71 \text{ miles } + 14 \text{ miles } 37.35 \text{ chs.} =$$

$$\text{miles } \overset{\text{chs.}}{37.35}$$

As this point is 17 miles run
due West from S. E. cor. of
Reservation I offset on tangent
17.0 chs. N. then continue on
86th Mill.

November 4th 1884

86th Mill.

West on true line

Var. 15° 30' E.

8000 Set sandstone 28 x 16 x 4 ins
10 ins. in ground marked th.
U.I.R. on N.P.I. on S. and
86 N. on E. side. Raised
mound of stone alongside
Surface rocky top of divide
Soil 3rd rate.

87th Mill.

West on true line

Var. 15° 30' E.

8000 Set sandstone 21 x 16 x 10 ins
10 ins. in ground marked th.
U.I.R. on N.P.I. on S. and
87 N. on E. side. Raised
mound of stone alongside.
Surface rather hilly cut by
numerous small ravines. N.W.
Soil 3rd rate rocky
Scrub cedars scattered alongside

429

8.8th mile

West on true line

Var. $15^{\circ} 30' E.$

- 2700 Ledge of rocks at edge of gulch
head of canon course N.W.
4100 Water course in bottom of
gulch course N. W.
4800 W. edge of gulch
8000 Set Sandstone 3.0 X 1.6 X 1.0 ins
10 ins. in ground marked
N. W. I. R. on N. P.I. on S. and
88 M.L. on E. side.
Surface broken.
Soil 3rd rate rocky
Scrub cedar and a few pines
Scattered over hills.

8.9th Mile

West on true line

Var. $15^{\circ} 30' E.$

- 3700 Edge of canon course N.W.
6450 W side of same. This canon
has sharp rough sides, but at
this point is not very deep
Enter cedar timber
8000 Set Sandstone 1.5 X 7 X 6 ins. 10 ins.
in ground marked N. W. I. R.
on N. P.I. on S. and 89 M.L. on
E. side. Raised mound of stone
around stone from which
a pine 12" diam. bears N. $18^{\circ} E.$
27 lbs. dist. marked N. W. I. R.
89 M.
B.T. a pine 10 ins. diam.
Bears S. $63^{\circ} W.$ 127 lbs. dist. marked
P.I. B.T.
Surface broken.
Soil 2nd and 3rd rate.

Timber on last rocks, cedars
with a few pines.

90th Mile.

- 0100 Leave timber
- 18.75 Ledge of rocks at edge of canon
bears N. 70° W.
- 8000 Block of sandstone 15 x 10 x 5 ft.
marked U. S. I. R. P. I. 90 N.
+ on N. S. E. and W. sides.
This rock is one of many
which has fallen away from
ledge above.
Surface broken and open.
Soil 3 in. slate.

91st Mile.

West on true line

var. 15° 30' E.

- 4200 Leave canon bears N. W.
The line crosses this canon about
3/4 mile below its extreme head
- 8000 Set sandstone 21 x 11 x 5 ins.
10 ins. in ground marked U. S.
I. R. on N. P. I. on S. and 91 N.
on E. side.
Raised large mound of stone
alongside.
Surface except canon fully and
barely.

92nd Mile

West on true line

var. 15° 30' E.

8800 Set sandstone 12 x 6 x 3 ins.
 10 ins. in ground marked N.
 N. I. R. on N. P. I. on S. and 92
 M. on E. side, dug pits 24 x 18 x
 12 ins. N. and S. of stone 5 1/2
 ft. dist.
 Raised mound of earth 2 1/2 ft.
 high 3 1/2 ft. base.
 Surface open Sagebrush hills
 Soil 2nd rate.

November 5th 1884.

93rd Mile.

32,37 This point being 24 miles from
 S. E. cor. of Reservation the
 total offset on tangent should
 be 240 lks. N. but as 170 lks.
 of this was set off at 86th mile
 I now offset on tangent 70 lks.
 thence West.

8700 Set sandstone 14 x 12 x 6 ins.
 10 ins in ground marked N. N.
 I. R. on N. P. I. on S. and 93
 M. on E. side, dug pits 18 x 18
 x 12 ins. N. and S. of stone 5 1/2 ft
 dist. Raised mound of earth
 2 1/2 ft. high 3 1/2 ft. base
 Surface hilly.
 Soil 3rd rate.
 Sagebrush.

94th Mile

West on a true line

Var. 15° 30' E.
 Gulch course N. W.

8000 Set sandstone 23 X 13 X 8 ins
 10 ins. in ground marked N.W.
 I.R. on N.P.I. on S. and 94
 N. on P. side. Raised mound
 of stone alongside.
 Surface hilly, drains N.W.
 Soil 2nd rate.
 Sagebrush and a few cedars

95th Mile

8000 Set sandstone 30 X 16 X 10 ins.
 10 ins. in ground marked N.W.
 I.R. on N.P.I. on S. 95 M.,
 on P. side. Raised large mound
 of stone alongside.
 Soil 2nd rate.
 Surface nearly level.
 Sageplain.
 The corner stands 225' E.W. E
 of edge of a deep wide canon.

94th Mile

From 95th mile corner triangle
 to flag planted in line on W.
 side of canon as follows,
 Base 92.20 chs.

Angle at N.E. end of base 74° 15'

Angle at flag 15° 45'

Dist to flag from 95 M. E.,
 70.92 chs.

Our camp is located at the
 junction of this canon with
 a large one farther West about
 4 miles below line.

8000 Set sandstone 21 1/4 x 5 ins. 10 ms.
in ground marked 81. T.I.R.
on N.E.I. on S. 96 N. on side
Raised large mound of stone
alongside.
Surface a rough canon with
broken rocky slopes.
Some few cedars scattered along
sides of canon.

97th Mile
West on true line

Var. 15° 30' P.

8000 Set sandstone 19 x 8 x 7 ins. 10 ms.
in ground marked 81. T.I.R.
on N.E.I. on S. and 97 N. on
E. side. Raised mound of
stone alongside.
Surface open N. slope of mountain
Soil 2nd rate.
Sage all along line. Some timber
higher up on the mountain.

98th Mile
West on true line

Var. 15° 30' P.

8000 Set sandstone 22 x 8 x 5 ins. 10 ms.
in ground marked 81. T.I.R.
on N.E.I. on S. and 98 N. on
E. side. Raised mound of
stone alongside.
Surface N.W. slope of Mountain
cut by numerous small gulches
course N.W.
Sagebrush. Soil 2nd rate.

99th Mile.
West on true line

Var. $15^{\circ} 35'$ E

1500 T.P. on edge of immense
canyon course N.

To obtain distance across this
canyon and a point in the
bottom of it from which 99th
mile stone could be set triang-
ulate as follows:

Send forwarded 2 flags. Set
one (A) in line in bottom of
canyon on W. side and one
B. on top of cliff on W. edge.
Then from T.P. lay off base
due south 30 chs. From bearings
at S. end of this base I have
1st base 30.00

angle at S. end of base to flag
A. $69^{\circ} 30'$

angle $20^{\circ} 30'$ at flag

Dist. 80.24 chs. to flag A.

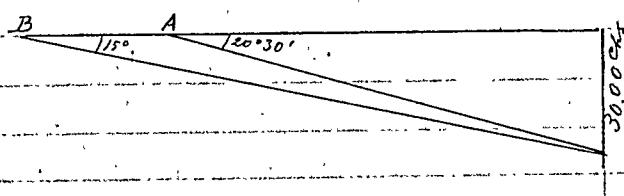
2nd base. Base due south. 30 chs.

angle at S. end of base to flag

B. 75°

angle at flag B. 15°

Dist. to ... 112.00 chs.



Now descend into canyon and
from flag A run East 15.24 chs.
and set Sandstone 25 X 13 X 7 ms.
10 ms in ground marked W.W.
I.R. on N.P.I. on S. 99 N. on
E. side. Raised large mound
of stone alongside.

Most of this mile lies on the broken and often precipitous sides and walls of the canon which can be traversed only in a few places. A small part of the bottom of the canon is level, a large part being covered with debris from falling walls.

November 6 1884,

100th Mile

West on true line

Var. 15° 35' E.

- 8.25 Creek 8 chs. wide course N.
now ascend to flag B.
98 - 13 chs + 112 chs. = 99 miles
47 chs.
- 4700 Flag B. W. edge of canon.
Enter comparatively smooth plateau sloping gently E.
Set. sandstone 18 x 100 x 8 ins.
10 ins. in ground marked N.
U. I. R. on N. P. I. on S. and
100 M. on E. edge along pits
24 x 18 x 12 ins. It and S. of stone
5½ ft. dist. Raised mound of
earth 2½ ft. high 3½ ft. base
alongside.
Soil 1½ rough canon side 2½
sage plain.

101st mile

West on a true line

Var. 15° 45' E.

- 8700 Set. sandstone 13 x 12 x 10 ins.
10 ins. in ground marked N.
I. R. on N. P. I. on S.

101st M on E. edge. Long pits
 15 x 18 x 12 ins. N and S. of stone
 5½ ft. dist. Raised mound
 of earth 2½ ft. high 3½ ft.
 base alongside. Surface sageplain gently
 sloping E. Soil 2nd rate.

102 mile

West on trail line

Var. 15° 45' P.

Enter cedars and begin sharp
 ascent

Set sandstone 15 x 12 x 8 ins.
 10 ins. in ground marked H. H.
 I. R. on N. P. I. on S. 102 M.
 on E. Edge. Raised mound
 of stone alongside.

Soil 2nd rate. Surface except last 10 chs.

Sageplain sloping E.

103rd Mill

West on a trail line

Var. 15° 45' P.

Leave cedars.

Indian trail bears nearly N.
 and S. As this is the main route
 taken by the Indians between
 their agency on Green river
 and the Grand river country.
 I set a large monument on E.
 side of the trail 8 chs. dist.
 from it.

In each I sit a sandstone.

marked U. M. I. R. on N. and
P.I. on S. sides.

8.000 Set sandstone 16 x 8 x 7 ins. 10 ins.
in ground marked U. M. I. R.
on N. P.I. on S. and 103 N on
E. edge. Raised mound of
stone alongside.
Surface high rolling plateau
covered with sage.
Soil 2nd rate.

104th mile

West on true line

Var. 15° 45' E.

45.00 Enter cedars and descend sharp-
ly to lower plateau.

62.00 Foot of bluff and leave cedars

Set sandstone 27 x 16 x 4 ins.
10 ins. in ground marked U.
M. I. R. on N. P.I. on S. and
104 M. on E. side. Raised
mound of stone alongside.
This cor. stands in small ravine
which is head of a considerable
canyon farther N. West

Soil 2nd rate

Surface of each plateau level.
Sage on all except bluff noted

105th and 106th mile

West on a true line

Var. 15° 45' E

27.32 This point being 3.6 miles from
S.E. cor. of Reservation offset
on tangent 120 deg.
thence West.

1640 Edge of deep box canon
course N. W. impassable on
line triangulate to flag on
opposite wall.

Base due N. 16 chs.

angle at N. end of Base $79^{\circ} 05'$
angle at flag $10^{\circ} 05'$

dist. to flag 82.96 chs.

104 miles $76.40 \text{ chs.} + 82.96 \text{ chs.} = 159 \text{ miles}$

79.36 chs. thence W. 64 chs.

Set sandstone 24 x 16 x 7 ins

marked N. N. I. R. on N. E. I.

on S. 10.6 M., on E. side on
rocky edge of canon.
This canon is about 500' deep
with walls so precipitous
that it was crossed with extreme
difficulty.

A small brook runs in the
canon rising and sinking at
intervals.

X November 7 1884

After an extended exploration
of the country beyond for
several miles, I am convinced
of the impossibility of carrying
the line farther by chaining.
The country is cut by a
labyrinth of deep impassable
canons requiring wide and
often fruitless detours.

I also learn by messenger,
dispatched for the purpose
that the work on the 3rd
standard parallel S. had not
up to this date been extended
to Range line between Ranges
16 and 17 E.

on which point I must do
I therefore for the present
abandon the present line
until this work is done.

I first however make a
careful measurement by tri-
angulation to the N. end
of the so called Gray cliff.
where I have a sheer wall
of great height to mark a
sharp point.

The cliff bears N. $83^{\circ} 22' W.$
Lay off base S. $6^{\circ} 38' W.$ 50 chs.
From S. end of base cliff bears
N. $76^{\circ} 42' W.$ from which angle
at cliff = 6.40 whence dist.
to cliff = 6.84. 45 chs. N. $83^{\circ} 22' W.$

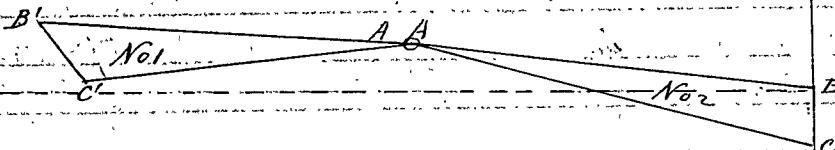
The notes following were taken
later but continued here for
convenience of reference.

Following the directions sent
me by Mr Farson deputy
Surveyor.

I find a witness standard corner
to Tps. 15 S. Range 14 and 17 P.
from which the Gray cliff
mentioned in preceding page
is clearly visible. This is the
cliff to which a triangulation
was made from 106 m. N.
corner on S. boundary.

To ascertain distance from this witness corner to the cliff I triangulate as follows.

From W.C. cliff bears N. $84^{\circ} 45'$ E.
Say off base N. 14° W. 80.00 chs.
From N. end of base cliff bears S. 89° E. from which angle at cliff = $6^{\circ} 15'$



In above figure "1" represents triangulation from West "2" represents former triangulation from East!

1. A.R. = point at cliff

C. witness standard cor.

B. C. = Base N. 14° W. 8000 chs.

C. A. = N. $84^{\circ} 45'$ E.

B.A. = S. 89° E.

Angle at A. = $6^{\circ} 15'$

" " E. = $98^{\circ} 45'$

" " B. = 75°

Sin. A.	9.036899
---------	----------

Sin. B.	9.984944
---------	----------

Log. 81.00	1.903090
------------	----------

Log.	2.831138
------	----------

Dist. 709.80 chs.

from triangulation "2"

We have from 10th mile to cliff

"2"	N. $83^{\circ} 22' W.$	68.445	79.05	679.86
"1"	S. $84^{\circ} 45' W.$	709.80	64.93	706.82

79.05	64.93	1386.68
-------	-------	---------

total westing from 10th mile stone 1386.68 = 17.26.68 chs. or closing dist. 13.3 - 77.43 chs. by adding dist. from W.C. to true point $60.75^{\circ} = 17 M. 77.43$ chs.

The excess of Northing

in above traverse being 14.16 chs.
The course from 106th mile
stone to close on Standard Cos.
would be N. $89^{\circ} 25' W.$

This deflection was considered
more desirable than would be
an offset the blinding of the
line making future closings on
the boundary more simple.

Having ascertained position of W.C.
in my line to be 12.3 miles 26.68 chs.
I now run

S. $89^{\circ} 25' E.$

Var. $16^{\circ} 20' E.$

2.6.68 Set sandstone 2.6 x 1.6 x 5 ins. 1.0 ms.
in ground marked H. H. I. R. on
N. P. I. and S. 12.3 N. on E. side.
Raised mound of stone alongside

S. $89^{\circ} 25' E.$

Var. $16^{\circ} 20' E.$

2.7.10 W. edge of canon course H. E.

43.00 E. " " " N. E.

5.000 Set sandstone 1.8 x 6 x 4 ins. 1.0 ms.
in ground marked H. H. I. R. on
N. P. I. and S. 12.2 N. on E. side.
Raised mound of stone alongside
Soil 3rd rate.

Surface broken table lands

S. $89^{\circ} 25' E.$

Var. $16^{\circ} 20' E.$

1000 Begun broken descent to Green
river bottom.
9.50 foot of Bluff and enter bottom

91.70 Right bank of Green river
course S.W.
Blazed and marked a cottonwood
tree 14" diam. near bank of river
in line.
Green river at this point is about
7.50' chs. wide and impassable
by fording.
The canon is estimated to be
2,000 feet deep, with rough precipitous
sides the formation being red sandstone
with layers of red and brown
slate interposed between the
strata. On top is an enormous
stratum of gray sandstone.
Innumerable short side canons
come into the
main canon from both sides.
These are almost all dry though
carrying some water in the Spring.

January 15th 1885. X

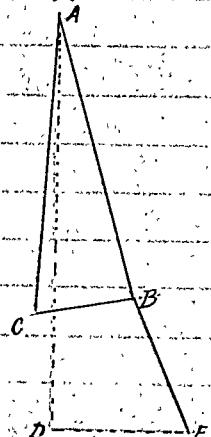
West boundary
U. T. I. R.

The country for the first few miles of the line N. of Standard Parallel is exceedingly rough being cut by many deep canons impassable in time.

I therefore triangulate from the North end of the base line used in the last triangulation N. $14^{\circ}W$. 80.00 from W. C.

To a sharp wooded hill on a prominent ridge as follows.
Say off base S. $63^{\circ}50'W$. 40.00
from C. end of this base hill bears N. $4^{\circ}40'W$.

From W. end of same, hill bears N. $2^{\circ}35'E$. from which



B. C. S. $63^{\circ}50'W$. 40.00

A. B. N. $4^{\circ}40'W$.

A. C. N. $2^{\circ}35'E$.

B. E. N. $14^{\circ}W$. 80.00

D. E. E. 50.75

$A = 70^{\circ}15'$

$C = 61^{\circ}15'$

$B = 111^{\circ}30'$

Sinc - $7^{\circ}15'$ 9.101054

11. $61^{\circ}15'$ 9.942864

Log. 40 1.603000

Log F. B. 2.443868 = 277.90

Transverse

D.E.	Dist	N.	C.	W.
E.B.	N. $14^{\circ}W$.	80.00	77.62	19.35
B.A.	N. $2^{\circ}40'W$	277.90	277.00	22.68
		354.10	370.73	42.03

Excess of Casting 8.72 chs.
 Digit in line 4 miles 34.62 chs.
 Number corner on this W. line
 of the Uncompahgre
 Ute Reservation from
 Standard Parallel.

5th Mile.

from wooded hill measure due
 West 8.72 chs. to

4162 Point in line on high ridge btrs.
 E. and W. thence N. on true line
 Var. 16° 20' Q.
 470 set sandstone 16x12x9 ins. 10 ins
 in ground marked U. U. I. R.
 on E. P. I. on W. & N. on S. side
 Raised mound of stone alongside
 Soil 3rd rate.
 Surface broken platany.

6th Mile.

N. on true line

var. 16° 20' Q.

4100 Bottom of deep gulch coarse E
 4700 set sandstone 19x8x6 ins. 10 ins.
 in ground marked U. U. I. R.
 on E. P. I. on W. & N. on S. side
 Raised mound of stone alongside
 Soil 3rd rate.
 Surface broken platany.

January 16th 1885.

7th Mile

N. on true line

var. 16° 20' Q.

36.00 top of ridge bears E and N.E.
 8000 set sandstone 15 x 10 x 9 ins
 18 ins in ground, marked H.
 U.I.H. on E. P.I. on W. & M.
 on S. side. Raised mound of
 stone alongside
 Soil 3rd rail barren
 Surface broken and rough

8th Mile

North on true line

Var. 16° 20' E.

10.00 Gulch course N. E.
 3700 S. E.
 8000 set sandstone 24 x 16 x 8 ins
 18 ins in ground marked H.
 U.I.H. on E. P.I. on W. & M.
 on S. side.
 Raised mound of stone along-
 sides
 Soil 3rd rail barren
 Surface broken.

9th Mile

N. on true line

Var. 16° 20' E.

31.50	top of ridge bears E. and W.
38.50	Gulch course N.E.
44.40	" S. E.
50.00	Set sandstone 17x9x8 ins. 10 ins in ground marked N. N. I. R. on E. P. I., on W.
	9 m. N. on S. side Raised mound of stone alongside Soil 3 rd rate. Surface broken and rough.

10th Mile
North on true line

var. 16° 20' P.

12.00	top of ridge bears N. E.
17.00	Set sandstone 21x16x12 ins. 10 ins in ground marked N. N. I. R. on E. P. I. on W. 10 M. on S. side Raised mound of stone alongside Soil 3 rd rate. Surface mountainous.

11th Mile
N. on true line

var. 16° 20' P.

27.00	Dry bed of creek course E. thence ascend very steep bluff.
29.00	Enter table land
30.00	Set sandstone 40x30x8 ins. 18 ins in ground marked N. N. I. R. on E. P. I. on W. 11 M. on S. side Raised mound of stone alongside Soil 3 rd rate. Surface broken.

12th Mile

N. on true line

Var. 16° 20' E.

6000 Set sandstone 30 x 19 x 17 ins. 18 ins.
in ground marked N. U. I. R.
on E. P. I. on W. 12 M. on S. side
Raised mound of stone alongside
Soil 3rd rate
Surface nearly level plateau.

13th Mile

N. on true line

Var. 16° 20' E.

46.00 Descend into deep canon
bottom of same coarse S. P.
6800 Set sandstone 31 x 16 x 5 ins. 18 ins.
in ground marked N. U. I. R. on
E. P. I. on W. 13 M. on S. side
Raised mound of stone alongside
Soil 3rd rate. Rocky
Surface 1st half mile level
rest broken canon

January 17th, 1885.14th Mile

N. on true line

Var. 16° 20' E.

5.00 top of bluff
7000 Gulch coarse S. P.
8000 Set sandstone 34 x 16 x 9 ins.
18 ins. in ground marked N. U.
I. R. on E. P. I. on W. 14 M. on
S. side. Raised mound of stone
alongside.
Soil 3rd rate.
Surface broken plateau.

15th Mill

N. on true line

Var. 16° 20' P.

2450 Gulch course S. P.

In gulch course N. W.

set Sandstone 24 x 21 x 10 ins.
17 ins. in ground marked N. N.
I.F. on E. F.I. on W. 15 M.
on S. side. Raised mound of
stone alongside.Soil 2nd and 3rd rates.

Surface broken plateau.

16th Mill

N. on true line

Var. 16° 20' P.

This mill crosses a great canon
which is the main drain for the
plateau to W. and S. It has near-
ly perpendicular walls and in-
grassable in line.1600 From a point 16.00 N. of East
cor. triangulate to flag in line
on N. side of canon as follows.

Base line East 20.00

from East End of base

flag bears N. 18° 20' W.

From which

$$A = 13^\circ 40'$$

$$B = 76^\circ 20'$$

$$C = 90^\circ 00'$$

$$B.C = 20.00$$

$$C \quad \text{Sin} 13^\circ 40' \quad 9.373414$$

$$\text{Sin} 76^\circ 20' \quad 9.987526$$

$$\text{Log.} 20.00 \quad 1.301030$$

$$\text{Log.} A C = 1.915142 = 82.26$$

$$15 \text{ miles } 16.00 + 1 \text{ mile } 2.25 \text{ chs.} =$$

$$16 \text{ miles } 18.25 \text{ chs.}$$

Position of 16th mile is measured
from flag.

17th Mile

N. on true line

Var. 16° 20' P.

18.25 Flag.

6800 Gulch course N. E.

Set sandstone 20 x 15 x 10 ins. 10 ins.
in ground marked N. N. I. R. on
E. P. I. on W. 17 M. on S. side.
Raised mound of stone alongside.
Soil 3rd rate
Surface broken table lands.

18th Mile

N. on true line

Var. 16° 20' P.

40.00 Short gulch course S. E.

Low ridge bears N. E. and S. W.

Set sandstone 30 x 15 x 6 ins. 14 ins.
in ground, marked N. N. I. R.
on E. P. I. on W. 18 M. on S. side.
Raised mound of stone alongside.
Soil 3rd rate
broken table lands.

19th Mile

N. on true line

Var. 16° 20' P.

Gulch course N. W.

8000 N. E.

Set sandstone 24 x 16 x 8 ins. 16 ins.
in ground marked N. N. I. R. on
E. P. I. on W. 19 M. on S. side.

Raised mound of stone alongside
Soil 3rd rate.
Surface broken tablelands.

20th Mile
N. on a true line

Var. 16° E. S. P.

6800 Gulch course N. E.
8000 Set marks on Sandstone boulder
3.0' x 1.0' x 7' high.
thus + Tl. N. I. R. + P. I. - 2.0 N.
this cor. stands on steep hill
side covered with immense rocks
broken from cliff.

21st Mile
N. on true line

Var. 16° 20' P.

1200 top of Bluff
4800 descend rocky bluff to
6400 Gulch course E.
8000 set sandstone 4.0 x 1.2 x 1.2 ms.
2.0 ms. in ground. marked N. U.
I. R. on P. I. on W. 21 N. on
S. side. Raised mound of stone
alongside.
On rocky hill side.
Soil 3rd rate.
Surface broken tableland.
January 18th 1885

22nd Mile
N. on true line

Var. 16° 20' P.

8000 top of Bluff.

52.00 Ridge bears N. E. and S. W.
 8000 set sandstone 3.5 x 1.6 x 6 ins. 16 ms
 in ground marked N. W. I. R.
 on C. P. T. on W. 23 M. on S. side.
 Raised mound of stone alongside.
 Soil 3rd rate.
 Surface broken tablelands.

33rd Mile
 N. on true line

Var. 16° 20' P.

1400 Gulch course N. E.
 57.00 Gulch course N. W.
 80,00 Set sandstone 2.4 x 1.8 x 10 ins.
 16 ms. in ground marked N. W.
 I. R. on C. P. T. on W. 23 M. on
 S. side. Raised mound of stone
 alongside.
 Soil 3rd rate.
 Surface broken tablelands.

34th Mile
 N. on true line

Var. 16° 20' P.

2100 Edge of deep canon of 9 mile
 creek impassable in line
 I find immediately in line
 and nearly 2 miles dist
 a sharp point of white sandstone
 bluff.
 I triangulate to this point
 as follows (also from same
 base to flag set on creek in canon)
 Base 100 feet Past 18 chains from
 E. end of base. Flag on creek
 bears N. 20° 20' W. from point of cliff
 bears N. 4° 41' W. from which

1st.

$$A = 6^{\circ} 41'$$

$$B = 83^{\circ} 19'$$

$$C = 90^{\circ} 00'$$

$$B.C. = 18.00$$

$$\text{Sin. } 6^{\circ} 41' = 0.1065885$$

$$1183^{\circ} 19' = 9.997039$$

C

B

$$\text{Log. } 18.00 = 1.255273$$

$$A.C. \text{ Log. } 153.60 = 2.186427$$

2nd

$$D = 20^{\circ} 25'$$

$$E = 69^{\circ} 35'$$

$$F = 90^{\circ} 00'$$

$$G.C. = 18^{\circ} 00'$$

$$\text{Sin. } 20^{\circ} 25' = 0.342632$$

$$\text{Sin. } 69^{\circ} 35' = 0.9271823$$

$$\text{Log. } 18.00 = 0.255273$$

$$D.C. = \text{Log. } 0.4836 = 1.684464$$

$$2150 + 48.36 = 69.36$$

69.36 9 miles creek 10 chs. wide, courses from flag measure North.

10.64 and set sandstone 27x9x8 in.
18 ins. in ground marked U. U. I.
R. on E. P. I. on W. & 4 M. on S.

side. Raised mound of stone alongside.

Soil 3rd rate.

Surface broken table land.

I now take up line at White Cliff.

9.3 miles 16 chs. + 1 M. 73.60 =
25 miles 14.60 chs.

2.6 th Mile

White Cliff thence
N. on true line

var. 16° 30' C.

33.50 Head of gulch course S. E.
thence along slope of gulch

which runs southward on
W. side of line.

7000 Leave hill side.

8000 set sandstone 23x17x9 ins. 10 ms
in ground marked N. N. I. R. on
E. P. I. on W. 26 M. on S. side
Raised mound of stone alongside
Soil 3rd rate
Surface high tableland

27th Mile
N. on true line

X

1.50 Head of ravine course N. E.
18.00 Descend N. E. slope very steep
and rough.
38.00 Enter bottom of deep gulch
course S. E. thence follow up
Same on E. side.
8000 set sandstone 21x19x6 ins. 10 ms
in ground marked N. N. I. R.
on E. P. I. on W. 27 M. on S. side
Raised mound of stone alongside
Soil 3rd rate
Surface broken.

28th Mile
N. on true line

X

10.00 Begin rough ascend along S.
W. slope of bluffs.
46.00 Rocky gulch course S. W.
7440 Enter plateau
8000 set sandstone 27x18x9 ins. 10 ms
in ground marked N. N. I. R.
on E. P. I. on W. 28 M. on S. side

Raised mound of stone along
side.
Soil moderate.
Surface broken and very rough.
January 19th 1885.

29th Mile.
N. on true line
Var. 16° 30' P.

17.50 Enter timber.
45.00 Ravine course N. E.
80.00 Blaze and Mark. a pine tree
10" diam. marked U. M. I. R.
P. I. 29 N. for 29th Mil corner
Soil moderate
Surface hilly.
Timber cedar and pine.

38th Mile.
N. on true line

Var. 16° 30' P.
6.00 Ravine course N. E.
20.50 Ridge bears S. W. and N. P.
38.50 Ravine course North. Line enters
ravine at junction of 2 branches
one from E. P. and ^{only} from S. W.
Hence down ravine.
Leave ravine course N. W.
Intersect 2nd Standard parallel
S at a joint 4.00 chs. E. of
standard cor. to S 2 C 8. 35 8/36
or 76.00 chs. W. of standard
Twp. line.
Set sandstone 20x10x6 ins. mark
ed U. M. I. R. on P. P. I. on W.
P. C. on S. side.
Raised mound of stone alongside.

Soil 3rd rate.
Surface broken tableland
Scattered cedar timber.

X

Following instructions
I now begin at Standard
Cor. to Sps. 10 S. Rgs. 16 and 17 E.
and run N. on true line.

From this point to the end was
annulled by Lewis letter "E" Feb 8, 1900
31st Mill

Var. 16° 20' P.

3700

8000

For future convenience I
begin 31st Mill at Standard
Cor. instead of deducting the
8.90 chs. surplus of the 30th
Mill caused by the closing
Ridge bears N. E. and S. W.
Head of ravine course N. E. and
N. set a sandstone 18 x 12 x 9 ins.
10 ins. in ground marked N. N. I.
E. on E. P. I. on W. 31 M. on S. side
Raised mound of stone alongside
a few cedars on ridge.
Soil 3rd rate.
Surface broken.

32 Mile

N. on true line

Var. 16° 26' P.

8000

set. sandstone 18 x 7 x 6 ins.
10 ins. in ground, marked N. N.
I. E. on E. P. I. on W. 32 M.
on S. side. Raised mound of
stone alongside.

Soil 2nd rate.
Surface comparatively level,
sage.

33rd Mile
N. on true line
Var. 16° 20' E.

- 5800 wide gulch course N. E.
8000 Set sandstone 10 x 12 x 10 ins.
10 ins. in ground, marked U. N. I.
I. E., on P. P. I. on W. 33 M.
on S. side. Raised mound of
stone alongside.
Soil 2nd rate
Surface except gulch level sage

34th Mile
N. on true line

Var. 16° 25' E.

- 5500 Set sandstone 14 x 5 x 4 ins. 10 ms.
in ground marked U. N. I. E.
on P. P. I. on W. 34 M. on S.
side. Raised mound of stone
alongside.
Soil 2nd rate.
Surface plateau gentle
slope N. sage.

35th Mile
N. on true line

Var. 16° 20' E.

- 6500 Wide gulch course E.
8000 Set sandstone 21 x 16 x 5 ins. 10 ms.
in ground, marked U. N. I. E.
on P. P. I. on W. 35 M. on S. side

Field 190

June letter

Announced by Sonnie

Raised mound of stone alongside.
Soil 2nd rate.
Surface except gulch rolling prairie.
Sage and thin grass.

JULY 1900

36th Mile
N. on true line

Var. 16° 20' P.

73.00 Head of gulch course S. P.
8000 Set sandstone 16x6x6 ins. 10
ins. in ground marked N. U. I.
R. on P. F. I. on W. 36 M. on
S. side. Raised mound of stone
alongside.
Soil 3rd rate.
Surface rolling prairie.
Sage and thin grass.

January 20th 1885.

Drawn and by George Little

37th Mile
N. on true line

Var. 16° 20' P.

8000 Set sandstone 14x10x8 ins. 10 in.
in ground marked N. U. I. R.
on P. F. I. on W. 37 M. on S. side
Raised mound of stone alongside
Soil 2nd rate. Surface rolling
prairie.

38th Mile
N. on true line

Var. 16° 20' P.

3600 Ridge bears N. E. and S. W.

7000 Head of ravine course N.E.
 set sandstone 17x9x6 ins. 10ms
 in ground marked N.W.I.R.
 on E.P.I. on W. 88 M. on S.
 side. Raised mound of stone
 alongside.
 Soil 2nd rate.
 Surface hilly.
 a few cedars on ridge.

39th Mile
 N. on true line var. 16° 20' E.
 8000 Set sandstone 18x6x6 ins. 10ms
 in ground marked N.W.I.R.
 on E.P.I. on W. 39 M. on S.
 side. Raised mound of stone
 alongside.
 Soil 2nd rate.
 Surface hilly.

40th Mile
 N. on true line var. 16° 20' E.
 8000 Set sandstone 15x12x10 ins. 10ms
 in ground marked N.W.I.
 R. on E.P.I. on W. 40 M. on
 S. side. Raised mound of stone
 alongside.
 Soil 2nd rate.
 Surface nearly level sage.

41st Mile
 N. on true line var. 16° 20' E.

3870
8000 Bottom of wide gulch course m.
Set sandstone 17x6x4 ms. 10 ms.
in ground marked N. U. I. R.
on E. P. I. on W. 41 N. on S. side
Raised mound of stone
along side.
Soil 2nd rate.
Surface hilly.

42nd mile
N. on trail line
Var. 16° 20' E.
8000 Set sandstone 18x9x9 ms.
10 ms. in ground marked N.
U. I. R. on E. P. I. on W. 42 N.
on S. side. Raised mound
of stone alongside
Soil 2nd rate.
Surface rolling prairie
Sage.

43rd Mill
N. on trail line
Var. 16° 20' E.
8000 Set sandstone 17x12x10 ms.
10 ms. in ground. marked N.
U. I. R. on E. P. I. on W. 43 N.
on S. side.
Raised mound of stone
along side.
Soil 2nd rate.
Surface rolling prairie
Sage.

January 21, 1885.

44th Mill

N on true line

var. 16° 20' E.

4100 bottom of wide gulch course
E.Set. oct. sandstone 16 x 16 x 10 ins.
11 ins. in ground marked
U. N. I. R. on E. F. I. on W.
44th M. on S. side. Raised mound
of stone alongside45th Mill

N on true line

var. 16° 20' E.

5000 set. sandstone 14 x 14 x 8 ins.
10 ins. in ground marked U.
N. I. R. on O. F. I. on W. 45th M.
on S. side Raised mound
of stone alongside
Soil 2nd rate
Surface rolling prairie46th Mill

N on true line

var. 16° 20' E.

31.50 intersect S. boundary of
Minatare Indian Reservation at
a point 48 chs. W. of 16th mile
corner.Set sandstone 28 x 8 x 8 ins. 10 ms.
in ground marked U. I. R. on
N. face U. N. I. R. on S. E. and
P. I. on S. W. face. Raised
mound of stone alongsideAbove unmeasured by Com. letter E
Feb 8, 1900 X

Announced by Com. letter E Feb 8, 1900

The first 30 miles of this trip ran over the sharp ridges and intermediate canons of the Green river drainage. This country is exceedingly rough and absolutely bare. N. of the 2nd Standard parallel S. however the country is an elevated tableland, mostly open and having some fair grazing areas.

January 23rd 1885

General Description

Uncompahgre Ute Indian

Reservation.

This work was begun on the 20th day of October 1884 at the "Initial Point" the cor. to secs. 24, 25, 19, 30, of tract 5 ps. & S. R. 23 and 24 W. which was found without great difficulty through the courtesy of some of the Deputy Surveyor at Salt Lake who described the location to me.

Our first camp was made at a point on Cliff creek about 5 miles N. E. of the Initial point and we were compelled to work from this camp until the 15th mile was reached.

Camp was then moved to White river on the 23^d of October.

The country traversed as far as White river is wholly without running water or springs so far as I could ascertain and being very high may be safely considered as beyond all hope of redemption even if the character of the soil were such as to warrant the effort.

The absence of water made this run very hard on both men and animals.

After passing White river I attempted to run over the next 20 miles direct although the boundary survey was carried

over it by alignment and astronomical measurement. The first 3 miles however convinced me of the impossibility of accurate chaining over the country and triangulation was resorted to.

Thus the line was carried to the 45th mile when chaining was resumed.

The 15 miles between 30th and 45th mile corners is cut by an enormous number of canons running west into the great canon of Cracation creek. Many of these are absolutely impassable in line and all are very abrupt and deep.

From the 47th to 56th mile corners, the line follows in or near the small valley of the West branch of Cracation creek.

This creek has some water at all times, but I should judge carried a considerable stream in the spring and summer months.

From 56 to 64 M. Posts the line traverses a rapidly ascending tableland, cut by 3 or 4 large canons.

At the 64th mile we reach practically the summit of the great divide between the waters of White and Grand rivers, which is designated on maps as the Roan or Book cliffs. The southern descent of this

ridge is excessively rough and to reach the S.E. cor. of the Reservation I was forced to run an angle or meander line down the canon of West salt creek and up a side gulch or canon.

As a rule my alignment and chaining corresponded very closely with that of the Boundary Survey.

But whenever a slight departure was discovered, it was corrected so that the established Boundary line should remain unchanged.

A small difference in the distance between the astronomical Station, near White river, and the 191th mile corner might be accounted for by the difference in the methods of measuring, with the one exception of the narrow valley of White river and possibly a few acres along Cracuation creek. No part of country thus far passed over could be made available for any useful purpose.

The general character of the Geological formation is carboniferous, and coal petroleum etc. may in the future be largely developed.

The timber which is found scattered over the cliffs is generally scrub cedar with occasional small bodies of pine and fir.

As the first 17 or 18 miles of the South boundary run diagonally up the South face of the Book Cliffs I found it impossible to follow it and resorted to triangulation and angle lines to reach the 86 mile cor. from which the country gradually descends as we go West and becomes more and more broken by canons the farther we ride from the divide.

From the 106th M. P. west I was compelled to abandon chaining on account of the labyrinth of canons, by which the surface is cut in every direction, and the line was carried over to a connection with the 3rd a. Standard Parallel West of Green river by triangulation.

The survey of this boundary was suspended Nov. 7th 1884 and not renewed until Jan. 16th 1885.

The whole South boundary runs over what may be truly called "Bad Lands" worthless and uninhabitable.

The 1st 30 miles of the West Boundary crosses the side canons of the Green river drainage all very rough and of no account as to practical value.

No. of the 30th mile and to the closing on the Uintah Re-survey boundary.

the country is high table land, covered with a fair growth of grass and some sage.

The distance to water is generally not too great for stock to feed on the ranges. As a whole this reservation contains very little land which could be of use to the white man, the only arable land being in narrow strips along the Green and White rivers and the only water outside those rivers being in the narrow and often inaccessible canons.

This latter supply is uncertain, alternately sinking and rising and often failing entirely. Its only possible value lies in the deposits of coal, which undoubtedly will be found at many points.

Second Part

Umtah Indian Reservation

Volume

#

R0328

S.W. Boundary of Umatilla
Indian Reservation

After an extended and
diligent search among the bluffs
bordering the Green River to
Forest

Found the eastern boundary
from either the W.M. Surveyor's
line or the Reservation line to
be in great need of repair
from corrosion with the action
of the water.

Estimated the present &
actual M.L. by compass, and
distances apart for several
and miles from the river
at some of the large stations but
finishing so many that had
been destroyed, that it would
be difficult to give the whole line
from initial measurements.

Form inside ~~poorly~~
down

N 58° W. on 1st mill

Ja 16° 10' E.

2000 Corner found in place.

2nd mill

N 58° W.

Ja 16° 10' E.

2000 No corner found.

Sit sandstone 21 x 13 x 7 in.
10 in ground marked U.I.R.
on Gr. U.U.I.R. on S.
2 m. on E. side.

Raised mound of stone
along side.

Topography as described
in original notes.

3rd mill

N 58° W.

Ja 16° 10' E.

2000 No corner found. Sandstone
17 x 5 x 5 in. 10 in. in ground
marked U.I.R. on Gr.
U.U.I.R. on S. and 3 m
on E side.

Raised mound of stone
along side.

4th mill

N 58° W.

Ja 16° 10' E.

2000 Found masked stone
about 2 ch. from paper

position

Reef in ground of stone

8th mile.

N 38° W.

Da 16° 10' E.

800s

No corner found.

Set sandstone 16x16x39 ins.
10 ins in ground marked
U.I.R. Jan N. U.U.I.R.
on S. 6 M. on E. side

Raised ground of stone
alongside

6th mile

N. 38° W.

Da 16° 10' E.

800s

No cr. found.

Set Sandstone 16x16x6 ins
10 ins in ground marked U.I.R.
on N. U.U.I.R. on S.
6 M. on E. side

Raised ground of stone
alongside

On November 1st 1884.

7th mile

N. 72° W

Da 16° 10' E.

80.57

Monument in place

40 ft N

8th mile

N. 72° W.

1 Ca 16° 08' E.

8005

Groundcut in place

9th mile

N. 72° W.

1 Ca 16° 08' E.

8005

No corner found

Sed. sand stone 21 x 8 x 8
in. 10 in. in ground marked
A. I. R. on N. U. U. I. R. on
S. 9 m. on E. side

Raised mound of stone
alongside.

10th mile

N. 72° W.

1 Ca 16° 08' E.

8005

No corner found

Sed. sandstone
16 x 12 x 3 in. 10 in. in ground
marked U. I. R. on N.
U. U. I. R. on S. 10 m
on E. side

Raised mound of
stone alongside.

11th mile

N. 80°W.

Ja 10° 08' E.

8000

No Cor. Found

Set Sandstone 19 x 6 x 3 in.
 10 ins in ground marked
 U. I. R. on N. U. C. I. R. on S.
 11 m. on E. side. Raised
 mound of stone alongside

12th mile

N. 80°W.

Ja 10° 10' E.

8000

No Cor. Found

Set Sandstone 20 x 8 x 3 in.
 10 ins in ground marked U. I. R.
 on N. U. C. I. R. on S. 12 m.
 on E. side. Raised mound of
 stone alongside

13th mile

N. 80°W.

Ja 10° 10' E.

8016

Monument in place.

2, kbs. N. This error is so slight
 I disregard it as to corners
 set far east

4 miles

November 2nd 188414th mile

N. 80°W.

Ja 10° 10' E.

7992

Monument in place

15th mile

West

Ca 10° 10' E.

8005

No corner found

Set sandstone 15x10x8 ins.

10 ins in ground masked

A.I.R. Jon N. U.C.I.R. on S.
15 M. on E. side Raised mound
of stone alongside16th mile

West

Ca 10° 10' E.

8005

No cor found

Set sandstone 21x6x2 ins

10 ins in ground masked

A.I.R. Jon N. U.C.I.R. on S.
16 M. on E. side Raised
mound of stone alongside17th mile

West

Ca 10° 10' E.

8026

Monument in place

15-eks N.

18th mile

West

Ca 10° 10' E.

8026

No corner found

Set sandstone 26x13x4 ins

10 ins in ground, masked U.I.R.
on N.C.P.L. on S. 18 M on E sideRaised mound of stone
alongside

X 19th mile

West

Da 16° 10' E

S012 Monument found in place

20th mile

West

S002 Monument found in place.

21st mile

S 75° W

Da 16° 10' E

S002 No corner found. Set sandstone
11x8x5-in. marked U.I.R. on
N. P.L. on S. 21 m. on E side
Raised mound of stone alongside
sideNovember 3rd 1884.22nd mile

S. 75° W.

Da 16° 10' E.

S002 No corner found.
Set sand stone 22x8x7 in.
10 in. in ground marked U.I.R.
on N.P.L. on S and 22 m.
on E side. Raised mound of
stone alongside23rd mile

S 75° W.

Da 16° 10' E

S002 No corner found Set sand

stone 15x13x10 ins 10 ins in ground
marked U.T.R. on N. Pk. on S.
23 M. on E. side Raised mound
of stone alongside

24th mile

S 75° W

Da 16° 12' E.

5000

No corner found

Set sand stone 18x13x7 ins 10 ins
in ground marked U.T.R. on N.
Pk. on S. and 24 M. on E. side

Raised mound of stone alongside

25th mile

S 75° W

Da 16° 12' E.

5000

No corner found

Set sand stone 24x13x6 ins 10 ins
in ground marked U.T.R. on N.
Pk. on S. and 25 M. on E. side
Raised mound of stone along
side

Since leaving the 20th mile
stone I have found no trace of
original line, although used
every care in alignment and
chainings

I conclude that some
error of coursing must have occurred
in original Survey.

It is now to be over

ercent, that to follow the courses
designated in those of that
Survey would carry us far
down on the Northern slope of
the "Divide" which it seems to
me, was clearly intended by the
executive order to be used as
a boundary.

Therefore I abandon
the courses of my original survey
and proceed with my
work following as nearly
as possible the "Divide".

26th mile.

S. 18° 45' W.

Da 16° 15' E.

~~5000~~
Set sandstone 15 x 5 x 3 in.
10 in in ground marked U.I.R.
on N. P. L. on S. and
26 m on E. side. Raised
mound of stone alongside.
Soil good rock.

Surface rolling prairie.

November 4th 1894

27th mile

S. 18° 45' W.

Da 16° 15' E.

~~5000~~
Set sandstone 21 x 6 x 3 in. 10 in
in ground marked U.I.R.
on N. P. L. on S. and 27 m
on E. side. Raised mound of
stone alongside.

Soil good soil fair grass, thin sage
surface rather hilly

10

477

28th mile

S 18° 45' W

Ja 16° 15' E

5000 Set sandstone 18x11x5 ins 10 ins
in ground marked C.I.R. on
N.P.L. on S. and 28 m on
E. side Raised mound of
stone alongside

Soil 2nd date

Surface hilly. Cedar timber
in savannas on either side of line

29th mile

S 18° 45' W

Ja 16° 15' E.

50.00 Set sandstone 18x12x10 ins 10 ins
in ground marked C.I.R. on N
P.L. on S. and 29 m. on E. side
Raised mound of stone along
side

Soil 2nd date

Surface hilly and open

Cedar timber in savannas on
either side of line

30th mile

S 18° 45' E

Ja 16° 15' E.

5000 Change course to S. 3° 15' W

5000 Set sandstone 26x12x8 ins

10 ins ground marked C.I.R.
on N.P.L. on S. & 30 m on
E. side Raised mound of
stone alongside

Soil 2nd date Surface hilly
open. A few cedar trees and

31st mile

S $30^{\circ}15'W$ Ca $16^{\circ}15'E$

6060

Top of conical hill.

8000

Set sandstone $16 \times 12 \times 3$ ins 10 ins
in ground marked U.I.R.
on P.L on S. 31 m on
E. side. Raised mound of
stone alongside.Soil 2nd rate.

Surface hilly rather broken.

Scattered cedar among hills.

32nd mile

S $30^{\circ}15'W$ Ca $16^{\circ}15'E$

5000

Set sandstone $19 \times 8 \times 7$ ins 10 ins
in ground marked U.I.R. on P.L
on S. and 32 m on E.
side. Raised mound of
stone alongside.Surface broken hills. Scattered
cedar timber with a few pines.Soil 2nd rate.The "divide" for the last 3 or 4
miles is not very sharply
defined and the line has
run as nearly as possible on
its general course.

33rd mile

S $30^{\circ}15'W$ Ca $16^{\circ}15'E$

1600

Change course to S $23^{\circ}W$.

2200

Top of sharp rocky hill.

Hence along east

7000 Leaves top of hill
 5000 Sch sandstone $9\frac{1}{2} \times 16 \times 5$ ins.
 10 ins in ground marked
 U.I.R. on N. P.L. on S. and
 30 M. on E. side. Raised
 mound of stone alongside
 Surface broken hills
 Soil 2nd and 3rd soil
 November 5th 1904

84th mile
 $S 23^{\circ} W.$

$Da 16^{\circ} 20' E.$

3900 Head of course course W.
 4700 " " " " " E.
 5000 Sch sandstone $15 \times 12 \times 7$ ins.
 10 ins in ground marked
 U.I.R. on N. P.L. on S. and
 34 M. on E. side. Raised mound
 of stone alongside
 Soil 3rd soil
 Surface broken hills

35th mile

$S 20^{\circ} W.$

$Da 16^{\circ} 15' E.$

3300 Change course to $S. 37^{\circ} W.$
 5000 Sch sandstone $27 \times 12 \times 8$ ins. 10 ins
 in ground marked U.I.R.
 on N. P.L. on S. and
 35 M. on E. side. This cor-
 stands on steep side of
 rocky bluffs sloping N.E.
 Soil 2nd and 3rd soil
 Surface broken hills
 Scattered clumps

36th mile

S. 37° W

Va 16° 15' E.

2100

Top of rocky bluff.

5000

Set sandstone 21 x 16 x 5-in.

Marked U.T.R. on N.P.L. on S. 36 m
on E. side. Raised mound of
stone alongside.Soil 2nd rate & 3rd rateSurface broken hills. Scattered
cedars and a few pines.37th mile

S. 37° W

Va 16° 15' E.

200

Leads rocky bluffs and disced

1600

Foot of hill cut & rolling prairie

87.05

Two ravines head at this point
running to the N.W. and S.E.

5000

Set sandstone 26 x 15 x 5-in. 10-in.

in ground marked U.T.R.

on N.P.L. on S. and S. 37 M. on
E. side. Raised mound of stone
along side.Surface broken Soil 2nd rate.38th mile

S. 34° 30' W. Va 16° 20' E.

8000

Set sandstone 20 x 10 x 9 in. 10-in.

in ground marked U.T.R. on

N.P.L. on S. 38 M. on E. side

Raised mound of stone alongside

Soil 2nd rate

Surface rolling prairie.

39th mile

S. 34° 30' W. Va 16° 20' E.

5000 Set Sandstone $16 \times 6 \times 6$ ins 10 ins
in ground marked U.I.R. on N P.L.
Sand 39 M on E side Raised
mound of stone alongside
Surface rolling prairie
Soil 2nd soil

40th mile

$884^{\circ}30'W.$ Var. $16^{\circ}20'E$

5000 Set sandstone $20 \times 6 \times 5$ ins 10 ins
in ground marked U.I.R. on N
P.L. on S. 40 M on E side
Raised mound of stone alongside
Soil 2nd soil

Surface rolling prairie about 2
ch. W. of this point. The country
drops sharply to the south
northward the descent is
gradual and is scored in every
direction with deep gulches.

November 6th 1884

41st mile

$884^{\circ}30'W.$ Var. $16^{\circ}20'E$

Change course to

$71^{\circ}15'W$

5000 Set Sandstone $13 \times 10 \times 10$ ins 10 ins
in ground marked U.I.R. on N
P.L. on S. and 49 M on E side
Raised mound of stone alongside
Soil 2nd soil

Surface heavily rolling prairie

42nd mile

$71^{\circ}15'W.$ Var. $16^{\circ}20'E$

3500 Ascend rocky hill covered with
Scrub vegetation

8000	Leave cedar top of bluff. Slope along saddle.
8000	Silt sandstone $23 \times 10 \times 6$ ins 10 ins in ground marked U.I.R. On N. P.L. on S. and 42 m. on E. side. Raised mound of stone alongside.
	Soil 2 nd rate
	Surface broken rocky hills. Top of bluff uneven & rough with scrub.

43rd mile

N 71° 10' W

Ja 16° 20' E

8000	Silt sandstone $28 \times 16 \times 6$ ins 10 ins in ground marked U.I.R. On N. P.L. on S. and 43 m. on E. side. Raised mound of stone alongside
	Soil 2 nd and 3 rd rates.
	Surface broken top of bluff.
	Cedars on S. slope

44th mile

N 55° 30' W

Ja 16° 30' E

2100	Ascend small mountain covered with cedars and a few pines.
8000	Top of mountain.
	Silt sandstone $17 \times 16 \times 15$ ins 10 ins in ground marked U.I.R. on N. P.L. on S. and 44 m. on E. side. Raised mound of stone alongside

Soil foot rate.

Surface mountainous
Timber cedar and pine.

45th mile.

N. 35° 30' W

Da 16° 20' S.

- 500 Descend mountain.
 6900 Rock ledge 30' high, bears
N.E. & S.W.
 7000 Foot of mountain, Leno timber
Set Sandstone 14x7x4 ins.
10" in ground marked U.I.R.
on N. P.L. on S. and 45M.
on E. side Raised mound
of stone alongside.
 Soil 3rd rate.
 Surface mountainous
Timber cedar & pine.

46th mile.

N. 35° 35' W.

Da 16° 21' S.

- 2100 Chalky coarse soil
N. 89° W.
 5000 Set Sandstone 26x16x4 ins. 10 ins
in ground. Marked U.I.R. on N.
P.L. on S. and 46M on E.
side Raised mound of stone
alongside.
 Soil 2nd rate.
 Surface broken hills.
 No timber on line.

49th mile.

N 89° W

Ja 16° 20' E.

5000' Silt sandstone 17x5x5 ins 10 mil
in ground marked U.I.R. on
N. P.L. on S. and 47m
on E. side

Soil 2nd rate

Surface hilly, a few cedar.
along line T.

48th mile.

N 89° W.

Ja 16° 20' E.

5000' Silt sandstone 17x9x5 mil. 10 mil
in ground marked U.I.R. on
N. P.L. on S. 48m on E side
Raised mound of stone
alongside

Soil 2nd rate

Surface hilly. Scattered cedar.
November of the 1884

49th mile

S 75° 10' W

Ja 16° 20' E.

3600' Cross lead of sharp rocky ravine
course S.E. J

5000' Silt sandstone 23x3x6 ins
10 mil in ground marked U.I.R.
on N. P.L. on S. and 49m
on E side Raised mound
of stone alongside.

Soil 2nd rate

Surface broken.

Scattered cedar, with a
few pines.

57th mile.

S. 75° 15' W

Ch 16° 20' E

7000

Cross head of stream course N.
Set sandstone 20 x 8 x 3 ins 10 ins
in ground marked U.I.R.
on N. P.L. on S. and 50 M.
on E. side Raised mound of
earth alongside

Soil 3rd rate.

Surface broken and rocky
Cedar and pine scattered

57th mile.

S. 58° 15' W

Ch 16° 20' E.

8000

Set sandstone 30 x 12 x 10 ins.
10 ins in ground marked U.I.R.
on N. P.L. on S. & 1 M on
E. side Raised mound of stone
alongside

Soil 3rd rate

Surface hilly.
Twigs cedar & pine
Thin and scattered.

52nd mile

S. 58° 15' W

Ch 16° 20' E.

9000

Set sandstone 26 x 16 x 8 ins 10 ins
in ground marked U.I.R.
on N. P.L. on S. and 52 M.
on E. side Raised mound of
stone alongside

Soil 3rd rate

Surface rough hills Scattered cedar.

5-5th mile
S 38° 15' W
Ja 16th '88

6200 Change course to

S 89° 25' W.

5200 Set sandstone 20x8x7 in. 10 in.
in ground. Marked U.I.R.
on N. P.L. on S. and
55 M. on E. side. Found several
of stone alongside.
Sail 65th mil.
Surface rough hills.
Scattered cactuses.

5-6th mile
S 38° 02' W.
Ja 16th '88

5200 Set sandstone 15x12-16 in.
Wid in ground. Marked U.I.R.
on N. P.L. on S. and 54 M. on
E side. Found several of stone
along side.
Sail 2nd sandstone area.
Surface top of bluff open.

5-5th mile
S 38° 20' W.
Ja 16th '88

10,000 W. end of bluff and descend
Change course to

S 63° 50' W.

2,000 Cross head of rocky ravine.
curve S. Chuck across mt
Outer timber
Set granite Stone 17x6x6 in.
10 lbs in ground. Marked.

L.R. on R. on road and
at M. to Eddie River road
Stone alongside
L.R. side of river road 7.740
dist. 1.00 marked L.R. on
front of road 55-M. on E side
about 7 on down bank and
field dist. marked L.R. on
N.E. on 55-M. on E side
Soil 3 ft. old
Bridge mentioned
Timber pine and cedar

55-mile

865' 30' W.

Ch. 1625' E.

7.751 Limestone on flat top of
Morrison
Dist. limestone 55-1625' on N.E.
in ground marked L.R. on
N.E. on S. and 55-M on E side
Rounded bottom of stone
alongside

Soil 3 ft. old

Bridge mentioned

Timber pine and cedar

1.00 dist. 1.00 ft. 10 P.M.

55-mile

W.E.

Ch. 1625' E.

Top - east of high ridge

limestone

dist. limestone 55-1625' on N.E.
in ground marked L.R.

55-M. on S. and 55-M
on E side

Raised mound of stone along
side Soil for sage
Surface mountainous

58th mile

West

Va 16°30'8"

Soil Set sandstone 17x9x4 in
10 in ground marked U.I.R.
on N. P. & on S. and 5-8' m.
on E. side Raised mound
of stone alongside.
Soil 2nd 7-8' calc.
Surface broken
Scattered timber - marble

59th mile

S. 87°W

Va 16°30'8"

Set sandstone 17x9x8 in 10 in
in ground marked U. I. R. on N.
P. L. on S. and 5-9' m. on E. side
Raised mound of stone along
edge
Soil 2nd 7-8' calc.
Surface mountainous.
Timber - cedar, pine and
a few spruces.

60th mile.

S. 87°W

Va. 16°30'8"

Top of small mountain
Set sandstone 20x8x6 in 10 in.

in ground marked U.I.R. on N.
P.L. on S. and 60 M. on E. side
Raised mound of stone along side
surface mountainous
Timber spruce and cedar
poor. Soil 3rd rate.

6 1/2 mile

S. 87° W.

Va 16° 30' E.

4000 Leaves scattered timber
orange coarse to
S. 62° 30' W.

5000 Set sandstone 26 x 16 x 7 ins. 10 mrs.
in ground marked C.I.R. on
N.W.P.L. on S. 61 M. on E. side
Raised mound of stone
along side
Soil 3rd rate
Surface mountainous
Timber on 1st 1/2 Scattered
spruce and cedar.

62nd mile

S 62° 30' W.

45 5000 top of cliff thinning along same
Set sandstone 18 x 12 x 9 ins. 10 mrs.
in ground marked U.I.R. on N.
P.L. on S. 62 M. on E. side
Raised mound of stone along
side
Soil 3rd rate
Surface mountainous

63rd mile

S. 62° 30' W.

Ca. 16° 30' S.

3100

Same bed of reddish
Change course to

S. 40° 45' W.

3200

Sel sandstone 8x6x4 ins 10 ins.
in ground marked U.I.R. on N.

P.L. on S. 63 M. on E. side

Raised mound of stone alongside
Soil 3rd date.

Surface mountainous

Timber scattered spruce & cedar.

64th mile

S. 40° 45' W.

Ca. 16° 30' S.

3300

Sel sandstone 28x18x6 ins 10 ins.
in ground marked U.I.R. on N.

P.L. on S. 64 M. on E. side

Raised mound of stone
alongside.Soil 3rd dateSurface rough top of ridge.
open.

From bin. of the 1884.

65th mile

S. 40° 45' W.

Ca. 16° 30' S.

4000

Change course to.

S. 26° 45' W.

5000

Sel sandstone 19x9x8 ins 10 ins.
in ground marked U.I.R. on N.

P.L. on S. and 65 M. on E. side

Raised mound of stone
alongside.Soil 3rd date.

Surface mountainous
Scattered spruce and cedar.
on hill sides below line.

66th mile

S 26° 45' W

On 18° 30' E.

5000' Silurian limestone 16x16x10 10 cu m
in ground marked U.T.R. on N.
P.L. on S. & 66' M on E. side
Raised mound of stone along
side.

Soil 3rd order

Surface mountainous open

Top of ridge

67th mile

S 26° 45' W

On 16° 30' E.

2000' Top of small mountain

Change course to

N 73° 30' W

Silurian limestone 28x16x10 cu m 10 cu m
in ground marked U.T.R. on N.
P.L. on S. and 67' M. on E. side
Raised mound of stone alongside
Soil 5th order

Surface mountainous

Scattered timber on hill sides

68th mileN. $93^{\circ}30'W.$ Va $16^{\circ}30'E.$

Change course to

S. $88^{\circ}45'W.$

57.00 Set Sandstone $3.2 \times 16 \times 7$ ins. 10ins.
in ground marked U.I.R. on N.
P.G. on S. and 68m. on S. side
Raised mound of stone along
side.

Soil 3rd rate

Surface open top of divide.

69th mileS. $88^{\circ}45'W.$ Va $16^{\circ}30'E.$

50.00 Set sandstone $13 \times 12 \times 10$ ins. 10ins.
in ground marked U.I.R.
at N. P.G. on S. and 69m.
on E. side. Raised mound
of stone alongside.

Soil 3rd rateSurface rolling top of ridge
open.70th mileS. $85^{\circ}45'W.$ Va $16^{\circ}30'E.$

50.00 Set sandstone $2.1 \times 18 \times 5$ ins. 10ins.
in ground marked U.I.R. on N.
P.G. on S. and 70m. on E.
side.

Raised mound of stone along
side.Soil 3rd rateSurface hilly top of divide
Thence ascend sharp peak.

71st mile
S 77° 50' W
Va 10 30' S

- 3600 Top of Sharp Peak.
8000 Set dolomite stone 26 x 16 x 12 ins.
10 ins in ground marked
U.I.R. On N. P.L. on S. 71st M.
on E. side.

Raised mound of stone along
edge

Soil 3rd rate
Surface mountainous
Spruce and cedar timber
on mountain.

November 10th 1884.

72nd mile

S 77° 50' W

Va 10 30' S

- 8000 Set sandstone 23 x 16 1.5 ins 10 ins
in ground marked U.I.R.
on N. P.L. on S. and 72nd M.
on E. side.

Raised mound of stone
alongside.

Soil 3rd rate
Surface open hilly. Top of ridge

73rd mile

S 77° 50' W.

Va 10 30' S.

- 900 Change course to.
8000 " N. 75° 45' W.
Set sandstone 18 x 6 x 0.7 ins
10 ins in ground marked
U.I.R. On N. P.L. on
S. and 73rd M. on E. side

Raised mound of stone
alongside.
Soil and water
Surface broken top of Divide.

74th mile.
N. $73^{\circ} 45' W$

Va. $10^{\circ} 30' E$.

5000
Set sandstone $26 \times 16 \times 8$ ins 10 in in ground
marked U.I.R. on N. P.L. on S. 74th M.
on E. side. Raised mounds of stone alongside
Soil and water Surface broken.
Surface top of Divide.

75th mile
N. $75^{\circ} 45' W$ Va. $10^{\circ} 30' E$.

2000 Change course to
N. $72^{\circ} 30' W$.
Set sandstone $17 \times 16 \times 8$ ins, 10 ins
in ground marked U.I.R. on N.
P.L. on S. 75th M on E. side
Raised mounds of stone alongside
Soil and water
Surface broken Prairie
Top of edge on Divide.

76th mile.

N. $72^{\circ} 30' W$. Va. $10^{\circ} 30' E$.

3000 Head of rocky ravine course N.E.
" " " " " South.
5000 Set sandstone $26 \times 16 \times 10$ ins.
marked U.I.R. on N. P.L. on
S. 76th M. on E. side. Raised
mounds of stone alongside.
Soil and water Surface broken Prairie
top of Divide.

2 miles
to divide
at 65° E.

Long course
N. 65° 30' U.

Second camp beat.

was top of small hill from this point the divide made a sharp turn to the north, and the mountains gradually became more rugged.

As to this point the divide has been well defined by strong ridge, sloping sharply south and more gently northward.

The last 25-miles have been acute north and broken and the divide on either side seems at little value.

Change course to

N. 45° 20' E.

and descend.

Top sandstone 17.5 x 26 ins. 10 mil.
in ground marked C.I.R.
on L. C. on W. 97 m on
edge. Rugged ground of stone
blocks.

and east side

large mountainous
ridges, clear with some pine
and spruce.

1300 feet - 11 AM 18 PM

2 miles

N. 45° 20' E.

Sc 1600 ft.

was bottom of depression between
two ridges on which

Land two inches. running
S.E. and N.W. respectively
Change course to

N. 50° E.

Set sand stone 17 x 9 x 9 ins.
10 ins. in ground, marked
U.I.R. on E. P.L. on W. and
75 M. on S. side. Raised
ground of stone alongside
Soil 3rd rate. Surface mountainous

79th mile.

N. 50° E.

Ob. $16^{\circ} 30' E.$

79th 5000 Fish of Mountain. Thence along
ridge.

Change course to

N. E. 45° W.

Change course to.

N. $21^{\circ} 30' W.$

Cross 2nd Cr. Ledge S. at a
Brut 10.21 lbs. by D.C. to
10 d. & 8 and 9 E. S.

Set sand stone 26 x 10 x 14 ins.
10 ins. in ground, marked
U.I.R. on E. P.L. on W. and
79 M. on S. side. Raised
ground of stone alongside

Soil 3rd rate.

Surface mountainous

80th mile

N. $21^{\circ} 30' W.$

Ob. $16^{\circ} 30' E.$

80th 5000 Set sand stone 26 x 16 x 6 ins.

10 ins in ground marked C.
I.R. on E. P.L. on W. and
80 m. on S. side. Raised
mound of stone alongside
Soil & talus.
Surface top of sharp ridge

8th mile

N 21° 30' W

Da 16° 30' E.

6000

End of ridge

I Chasing course to

N 8° 30' W

7100

Indian trail to agency bears
N. E.

Set Sandstone 18 x 6 x 6 ins

10 ins in ground marked
A.I.R. on E. P.L. on W. 81 m on
S. side. Raised mound of
Stone alongside on

N side of trail 1 ch. dist

8000

Set Sandstone 17 x 12 x 72 ins 10 ins
in ground marked A.I.R.
on E. P.L. on W. and 81 m
on S. side.

Raised mound of stone
alongside

I Soil & talus

Surface mountainous

Tinder scarce and open.

8th mile

N 8° 10' W.

Da 16° 30' E.

3000

Point of ridge, thence along
same. Ridge courses to I

N 18° 20' E.

5000	Set granite stone 21x15x7 ins 10 lbs. in ground marked C.I.R. on S. P.L. Jan 10. 82 M. on S. side Raised mound of stone alongside
	Soil 3rd fall Surface mountainous Scattered spruce and aspen
	83 rd mile Ja 18' 20' E Va 16' 30' E
5000	Set sandstone 18x6x5 ins 10 lbs. in ground marked C.I.R. on S. P.L. on W. and 83 M. on S. side. Raised mound & stone alongside Soil 3 rd fall Surface broken top of ridge
10,000	84 th mile North Ja 16' 30' E.
4300	Second from ridge Enter small basin
67.06	Leave same and ascend
5000	Set sandstone 16x5x8 ins 10 ins in ground marked C.I.R. on S. P.L. on W. and 84 M. on S. side. Raised mound of stone alongside
	Soil 1 st fall & 2 nd fall Surface in part smooth most mountainous. Fine grass in part. Aspen and spruce undergrowth on hills

32499

Book 4-3287

85th mile

North

Ca 10°30' E

5000 Point of ridge open
change course to
 $N 66^{\circ} 45' E$

From this station a high
peak very prominent bears
 $N 46^{\circ} 25' W$.

5000 Set 9 sandstone $27 \times 17 \times 7$ ins
10 ins in ground marked
U.I.R. on S. P.L. on W. and
80 m. on S. side.

Raised mound of stone along
side. Soil 3rd rate.
Surface mountainous and
rough.

November 12th 1894

86th mile $N 66^{\circ} 45' E$

Ca 10°30' E

5000 Sets sandstone $26 \times 16 \times 10$ ins
10 ins in ground marked
U.I.R. on S. P.L. on W. and
86 m. on S. side. Raised mound
of stone along side
Soil 3rd rate.

Broken top of ridge

87th mile $N 66^{\circ} 45' E$

Ca 10°30' E

6200 End of ridge
Change course to
North

5000 Sets sandstone $18 \times 6 \times 6$ ins

10 mts in ground marked U.I.R.
on E.P.L. on W. and 87 m. on
S. side. Raised mound of
stone alongside.

Surface mountainous
Soil poor rate.
Spruce and aspen timber
on last 2 or 3 rods.

88 $\frac{1}{2}$ mile

North Va. 16°30' E.

4000s Foot of long gentle slope
to low ridge & leave timber
Set sandstone 17x6x4 ins.

10 mts in ground marked
U.I.R. On E.P.L. on W and
88 m. on S. side. Raised
mound of stone alongside.

Soil poor rate.
Surface gentle descent.
Northward.

Timber Spruce and aspen.

89 $\frac{1}{2}$ mile

North

Va 16°30' E.

3200s Change course to

N. 32°30' S.

Set sandstone 16x13x8 ins.
10 mts in ground. Marked
U.I.R. on E.P.L. on W and
89 m. on S. side. Raised
mound of stone alongside.

Soil poor rate.

Surface broken top ridge

Glossy

7.5-8.5

Ca 10° E

Sed. Conglomerate

N 90° W

Lies N 30° E and
descends S.Est. gradient 20-25° and
lies in ground marked
N-E. on S. side. Raised
ground of stone alongside.

Sed. sandstone

Surface monotonous

Glossy

N 90° W

Ca 10° E

Sed.

Bottom of depression

between hills

Sed.

Limestone 7.5-8.5 m.

10.0 m. in ground marked
N-E. on S. side. Raised
ground of stone alongside

Sed. sandstone

Surface monotonous

Glossy

N 90° W

Ca 10° E

Sed.

Bottom of depression between

Sed.

Hills

Crystalline rocks

N 90° W

Bottom of depression

leaves N. $72^{\circ} 28' W.$ This is
the same bent as which bearing
was taken from T.P. in 85th fm.
The eastern approach to this peak
being exceedingly rough.

I have left the next
course for a bad outcropping
Set Sandstone 26x16x6 ins. 10 ins.
in ground marked U.I.R. on
E.P.L. on W. 92 M. on S. side
Raised mound of stone along
side.

Soil 3rd rate.

Surface mountainous
Timber scattered & poor.

November 13th 1884

9 $\frac{1}{2}$ mile

N. $87^{\circ} 25' W.$

Va. $16^{\circ} 30' E.$

Set Sandstone 30x22x10 ins. 10 ins.
in ground marked U.I.R.
on E. P. L. incl. 95 M. on S.
side. Raised mound of stone
alongside.

Soil 3rd rate.

Surface mountainous
Timber scattered and poor.

9 $\frac{1}{2}$ mile

N. $87^{\circ} 25' W.$ Va. $16^{\circ} 30' E.$

Set Sandstone 23x16x6 ins. 10 ins.
in ground marked U.I.R.
on E. P. L. on W. 94 M.
on S. side. Raised mound
of stone alongside.

Soil 3rd rate. Surface broken
Southern slope of mountain.

055 miles

Tr 57° 25' W.

Ja 16° 31' E

Top rock ledge part of
ridge - cut ESed. Sil. Sandstone 16-8 x 2 and 1000 ft
in ground marked U.I.R. on
S. P.L. on W. 95-72 on S. side
Ravaged mound of stone
down side

Soil 5 ft. tall

Surface mountainous

Trees scattered and poor.

96 1/2 mile

Tr 57° 25' W.

Ja 16° 31' E

Begin rocky ascent
Sed. marked - + U.I.R. and
Cn. 96 M. on S. E. face of
Sandstone bounded 7 x 10 x 12
ft high

Soil 5 ft. tall.

Surface mountainous

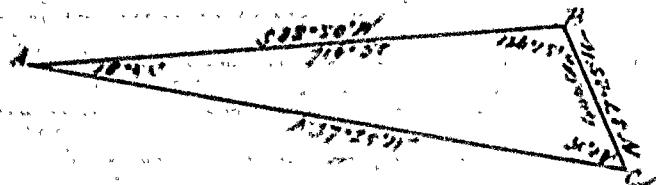
November 14, 1934 W.D.U.

043 miles

Tr 57° 25' W. Ja 16° 31' E

Rock ledge 50 ft. high, open
countrySed. top surface
from flat T.P. high peak
near 18000' W.C.Along the Ind. course at
a low I have the following
for prediction

Bear N. 57° 25' W. 200 Ch.
 Bearing from Southwesterly end
 of T. 72° 28' W.
 Bearing from Northerly end
 of S. 8° 55' W.
 Angle at first 18° 42'
 Total B.C. 716.50.



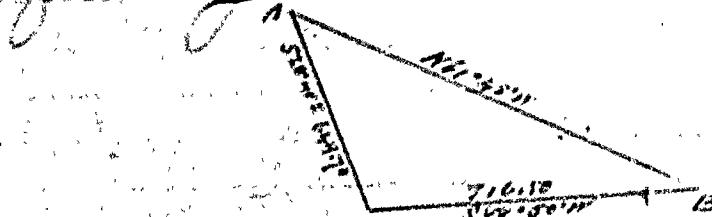
Angle at A = 57° 25'
 " B = 12° 10'
 " C = 50° 35'
 G.C. = 17 Ch.

A.B. 1040 ft.
 C.A. 716.50 ft.
 C.B. 117.25 ft.

17 Ch. = 1040 ft.

Mr. Stoddard the surveyor said
 from some old written point
 on ridge bear N. 61° 45' W.
 Great monument for the
 angle at second corner to stand
 without obstructions but had
 removed.

To measure distance from 1st
 point to second corner take
 following:



Bear B.C. S 8° 55' W. 716.50
 to B. N 61° 45' W.
 A.C. 8.28408 from which.

68.20

"

68.20

Angle at F. = $53^{\circ}08'$ C " B = $29^{\circ}25'$ " " C = $117^{\circ}35'$ F. C. = 644.70 . N $28^{\circ}40'W$ $100 - 63.50 + 644.70 \text{ chs.} = 113.68 \text{ chs.}$ The point F. therefore at which I have now arrived is in the 114^{th} mileT.P. from which triangulation is completed hence
N $45^{\circ}15'W$.Va $16^{\circ}40'E$.Set sandstone $18 \times 7 \times 6$ ins.
marked A.I.R. on E. P.L. on W.
 114 M. Raised mound of stone
along side.Note. The country between the 96^{th} and 114^{th} miles is exceedingly rough, not particularly high but broken by deep gorges and precipitous ledges, over which accurate chaining would have been impossible.

The courses given do not follow the Divide very closely,

but the country crossed is so inaccessible, that no material interests are affected.

November 15th 1884.

 115^{th} mileN $45^{\circ}15'W$.Va $16^{\circ}45'E$.Set sandstone $17 \times 6 \times 3$ ins.
10 ins in ground marked
A.I.R. on E. P.L. on W
and 115 M. on S. side

Raised mound of stone
alongside
Soil 8 ft. rate
Surface open top of ridge

116 $\frac{1}{2}$ mile
N 45° 15' W
Ja 16° 45' S.

4200 Change course to
N. 15° 25' S.
Ja 16° 45' S.

4200 Sh. sandstone 20 x 10 x 8 ins.
10 ins in ground, marked
U.I.R. abt E. P.L. on W.
1.6 M on S. side. Raised
mound of stone alongside.
Soil 8 ft. rate
Surface open top of ridge

117 $\frac{1}{2}$ mile
N 35° 25' S.
Ja 16° 45' S.

4200 Sh. sandstone 13 x 13 x 12 .ins.
10 ins in ground marked
U.I.R. abt E. P.L. on W
1.7 M. on S. side, Raised mld
of stone alongside.
Soil 8 ft. rate
Surface open top of ridge.

118 $\frac{1}{2}$ mile
N 15° 25' W
Ja 16° 45' S.

4200 End of ridge Change course to
N 74° 25' W.

- 5000 Set Sandstone $30 \times 20 \times 10$ ins 10
ins. in ground marked U.I.R.
on E. P.L. on W. 118 M. on S.
side. Raised mound of stone
alongside
Soil 3rd rate.
Surface mountainous.
- $119\frac{1}{2}$ mile
 $274^{\circ}25'W.$
 $Ca 16045^{\circ}S.$
- 2000 Enter top of ridge
Chalky & coarse to
North
- 6000 Set Sandstone $21 \times 19 \times 8$ ins 10 ins
in ground marked U.I.R. on E.
P.L. on W. 119 M. on S. side
Raised mound of stone along-
side
Soil 3rd rate
Surface mountainous.
- $120\frac{1}{2}$ mile
North
 $Ca 16045^{\circ}S.$
- 8000 Set Sandstone $18 \times 6 \times 6$ ins 10 ins
in ground, marked U.I.R.
on E. P.L. on W 120 M. on
S. side. Raised mound of
stone alongside
This line runs close to W
side of ridge
Soil 3rd rate
Surface broken top of ridge
November 16th 1884

121st

North

Ja 16° 45' E.

Change course to

N 21° 45' E.

5-700 Set sandstone 16x10x10 ins 10 ins
in ground marked U.I.R.
on E. P.L. on W. 121 m on
S. side. Raised mound of
stone alongside.

~~Soil 3 ft. rate~~
Surface mountainous.

122nd mile.

N 21° 45' E.

Ja 16° 45' E.

5-700 Top of small sharp peak.

Change course to

N 10° 45' W.

5-800 Set sandstone 20x16x10 ins
10 ins in ground marked
U.I.R. on E. P.L. on W. 122 m
on S. side. Raised mound
of stone alongside.

~~Soil 3 ft. rate~~
Surface mountainous
and very rough.

123rd mile

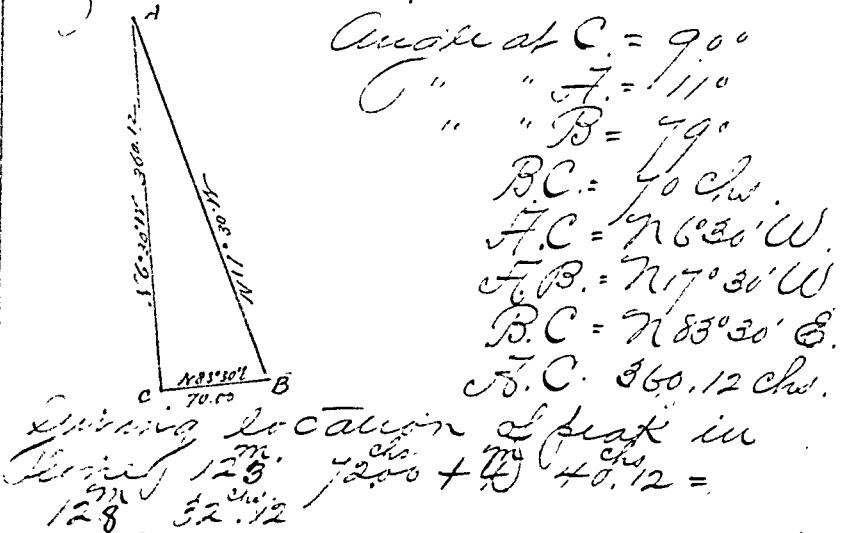
N 10° 45' W

Ja 16° 45' E.

5-800 Set sandstone 17x9x9 ins
10 ins in ground, marked
U.I.R. on E. P.L. on W and
123 m on S. side. Raised
mound of stone alongside.

Look forth & see
Surface top of ridge concave
entirely smooth.

- 700 124th mile
Top of small mountain
Change course to.
 $N 28^{\circ} 45' E.$
 $Qa 10^{\circ} 45' E.$
- 7200 Top of mountain at N. end of
ridge
Change course to
 $N 6^{\circ} 30' W.$
This course is laid to top of
any prominent peak with
such ease. Anticipating
great difficulty in ascending
this peak I strike from the
T.P. to the peak as follows.
Leave place $N 83^{\circ} 30' E.$ 7000
Foot East end of same peak
bearing $N 17^{\circ} 30' W.$
From which



Return run to T.P. at 123^{ch}
and run thence still on 124th m.
 $N 6^{\circ} 30' W$

8000 Set sandstone $17 \times 9 \times 8$ ins. 10 ins.
in ground. Marked U.I.R.
abx E. P.L. on W. 124 m. on S.
side Raised mound of stone
alongside.

Soil 3rd rate.
Surface mountainous

125th mile
 $N. 6^{\circ} 30' W.$
 $Da 16^{\circ} 30' E.$

8000 Set sandstone $15 \times 12 \times 8$ ins.
10 ins in ground marked
U.I.R. On E. P.L. on W
125 m on S. side Raised
mound of stone alongside
Soil 3rd rate.
Surface ridge descending N.
Scattered timber cedar and
Spruce.

126th mile
 $N. 6^{\circ} 30' W.$
 $Da 16^{\circ} 30' E.$

8000 Set sandstone $18 \times 6 \times 8$ ins
10 ins in ground marked U.I.R.
on E. P.L. on W. and
126 m. on S. side Raised
mound of stone alongside
Soil 3rd rate.
Surface low, broken ridge.

127⁴/₅ mile

N 80° 30' W.

Ca 16° 30' S.

46.75 Wagon road Weber city - do
Almy, bears S. E. and N. W.
Set Granite stone 26 x 17 x 12 ins
10 ins in ground marked
U. I. R. off E. P. L. on W. and
127 M. on S. side

Raised mound of stone
alongside

Soil moderate

Surface mountainous

November 17th 1884

From this corner the ascent
of the mountain becomes very
steep and chaining is
abandoned.

The snow having gained
considerable depth on the higher
mountains N and S of this
station. I find after a
careful exploration that it
will be impossible to extend
the line farther by chaining.
Having observed that the
line from 14th to 20th and
25th to 29th M. corners command-
ing a clear view of the
range. I now return to that
location and using the latter
course S. 18° 43' W. 4 miles
as a base triangulates
as follows.

In accompaniment of the
and north boundary of the
Reservation, which runs
on a high mountain range
impossible to be crossed.
I propose to take a series of
surveys along the following. I
From the 25th and 29th mile
post of the South Branch down
an excellent line of the
west side, from west side
to the N.W. 1/4 corner.
The line between these mile
corners S. 18° E. - W. provides
a base of four miles.

From 25th mile corner.

Read No 1. from N.E. 1/4.
" 2 " N.E. 1/4.
" 3 " N.E. 1/4

From 29th mile corner
Read No 1. from N.E. 1/4.
" 2 " N.E. 1/4.
" 3 " N.E. 1/4.
from which.

No 1.
B. - C. = 500
C. - D. = 5.525
D. - E. = 064
E. - F. = N. 18° E. 224.84.
line 307' E. 825-120.
line 100' = 0.99747.
line 300' = 1.250-000.
line 400' = 3.677-52.

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In another position
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From 19th mill corner
 Point No 3 bears: N 66° W
 " 4 " N 63° 55' W
 " 5 " N 60° 50' W.
 " 6 " N 55° 25' W
 " 7 " N 45° 40' W.
 " 8 " N 37° 55' W.
 " 9 " N 29° 30' W.
 " 10 " N 25° 10' W.
 " 11 " N 17° 07' W.
 " 12 " N 8° 10' W.
 " 13 " N 2° E.
 Last observation 24th Oct 1885.

From first corner bearing I
 have the following observations.
 I

No 5.

B.C. = 25°	
C.B.R. 103' 50"	
C.B.C. 240.00	
D.C. Direct 44.00 che.	
44.00 2' 55" 8.650 87.	
" 2" 9.660 313	
100 450 2.611 241	
F.C. 450 44.76.00 3.650 874.	

No 4

$\overline{C} = 50^{\circ} 00'$	
C = 100' 55"	
$B = 26^{\circ} 05'$	
B.C. = 450.00 che 8	

$\sin 5^{\circ} 00'$ 8.718800
 $\sin 26^{\circ} 05'$ 9.645155
 $\log 480$ 2.681241
 H.C. log 405200 3.600576.

No. 5-

$\bar{A} = 5^{\circ} 18'$

$B = 29^{\circ} 10'$

$C = 144^{\circ} 32'$

B.C. = 480.00 Chs. E.

$\sin 30^{\circ} 18'$ 8.7600101.

" 29^o 10' 9.687843.

$\log 480$ 2.681241

H.C. log 4064.00 3.608963.

No. 6.

$\bar{A} = 5^{\circ} 45'$

$C = 141^{\circ} 45'$

$B = 34^{\circ} 35'$

B.C. = 480.00 Chs. E.

$\sin 3^{\circ} 45'$ 8.828884.

" 34^o 35' 9.704046.

$\log 480$ 2.681241

H.C. log 4040.00 3.606403.

No. 7.

$\bar{A} = 4^{\circ} 27'$

$C = 131^{\circ} 18'$

$B = 44^{\circ} 15'$

B.C. 480 Chs. East.

$\sin 4^{\circ} 27'$ 8.889801.

$\sin 44^{\circ} 15'$ 9.843715.

$\log 480$ 2.681241.

H.C. log 4317.00 3.635165.

No 8

$$F = 5^{\circ} 24'$$

$$C = 122^{\circ} 11'$$

$$B = 52^{\circ} 25'$$

BC. 480 Chs. E.

$$\sin 5^{\circ} 24' = 8.075628.$$

$$" 52^{\circ} 25' = 9.898981.$$

$$\log 480 = 2.681241.$$

$$F.C. 4042^{\circ} = 3.606594.$$

No 9.

$$F = 6^{\circ} 20'$$

$$C = 113^{\circ} 10'$$

$$B = 60^{\circ} 30'$$

BC. 480 Chs. East.

$$\sin 6^{\circ} 20' = 0.042620 -$$

$$\sin 60^{\circ} 30' = 0.959697.$$

$$\log 480 = 2.681241.$$

$$F.C. \log 3787^{\circ} = 3.575315.$$

No 10.

$$F = 6^{\circ} 40'$$

$$C = 108^{\circ} 50'$$

$$B = 54^{\circ} 50'$$

BC. 480 Chs. E.

$$\sin 6^{\circ} 40' = 9.064806.$$

$$" 54^{\circ} 50' = 9.956682$$

$$\log 480 = 2.681241.$$

$$F.C. \log 3742^{\circ} = 3.575119.$$

No 11.

$$F = 6^{\circ} 40'$$

$$C = 108^{\circ} 22'$$

$$B = 72^{\circ} 53'$$

BC. 480 Chs. East

517

sin $6^{\circ} 45'$	9.070176
sin $72^{\circ} 53'$	9.980325
log 480	2.681241
H.C. log 390300	3.091390

No. 12

$A = 6^{\circ} 56'$

$C = 89^{\circ} 14'$

$B = 83^{\circ} 50'$

B.C. 480^{oo} Chs E.

sin $6^{\circ} 56'$ 9.081767

sin $83^{\circ} 50'$ 9.997480

log 480 2.681241

H.C. log 8953 3.096962

No. 13

$A = 6^{\circ} 42'$

$C = 81^{\circ} 18'$

$B = 88^{\circ}$

B.C. = 480 Chs E.

sin $6^{\circ} 42'$ 9.066962

sin $88^{\circ} 00'$ 9.999735

log 480 2.681241

H.C. log 4112 3.614014

Peak No 1 having been connected with Chained Line (See 124 fm) I have now from Courses and distances obtained from foregoing triangulations necessary data for determining the courses and distances from peak to peak, making a continuous line as follows.

Tomback 1-2	70°57'34"E.	475-68 Chs.
" " 2-3	76°28' "	398.05 "
" " 3-4	8.84°10' "	470.12 "
" " 4-5	72.35°38'2" "	221.90 "
" " 5-6	140°10'5" "	401.91 "
" " 6-7	24°57'13" "	735-55 "
" " 7-8	73°20'2" "	649.80 "
" " 8-9	81°12'3" "	613.59 "
" " 9-10	71°38'7" "	288.18 "
" 10-11	52°11'4" "	563.95 "
" 11-12	44°33'2" "	945.71 "
" 12-13	72°28'3" "	575.89 "

6360.20 Chs.

at 70 miles 40.20 Chs.

To connect the preceding line
with the N.E. boundary

I proceed as follows:

From notes of survey of that
time I find the corner land
distance from the mill at the
old agency to the N.E. M.
corner given N 45° W. 22 miles
56.44 Chs.

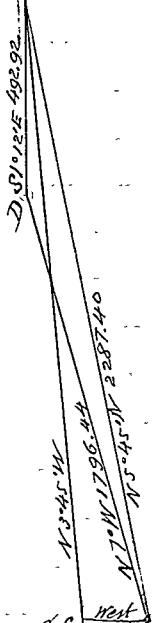
As the snow is so deep in that
locality auto make it more
than doubtful whether that
corner could be found.

I go to the old agency
and find the site of the first
mill from which peak No 13
is visible.

I now triangulate to this
peak from E. end of base peak B
bearing N 50° 45' W.

From W. end Peak bears N 3° 45' W.

A Pk 13.



$$\log 80 = 1.903090.$$

$$\log \sin 93^{\circ} 45' = 9.999069$$

$$11.902159$$

$$\log \sin 2^{\circ} = 8.542810$$

$$\log F.T.B. = 3.309940 - 2287.40$$

$$\log \frac{F.B.}{B.D.} = \log \frac{1796.44}{(2287.40 - 1796.44)} = 2.6910461$$

$$\log \text{tang. } 89^{\circ} 22' 12'' = \frac{1.9622234}{4.6032715}$$

$$\log \frac{1}{2}(2287.40 + 1796.44) = 3.6110687$$

$$\log \text{tang. } 84048'54'' = 1.0422028$$

$$\text{Angle D.F.B.} = 4^{\circ} 33' 36'' \text{ bearing } S 12^{\circ} E$$

$$\log 1796.44 = 3.2544126$$

$$\log \sin 1^{\circ} 10' = 8.3387029$$

$$11.3931655$$

$$\log \sin 4^{\circ} 33' 36'' = 8.9003856$$

$$\log F.T.D. = 2.6427819 = 492.92 \text{ Chs.}$$

November 30th 1884.

This gives
the following
calculations.

General Description.
Ouitah Indian Reservation

The survey of the S. & W. boundaries of this Reservation as far as it could be traced was conducted by H. P. Bennett and as described in the notes began at initial point on Greek River because no one was found, who could give the slightest information concerning the line.

The original line was retraced and though monuments found to clearly define it as far as the 2nd mile corner beyond which no corners were found.

Moreover it became evident that should the recorded corners and distances be followed the boundary would cross the drainage of Muskegon River a long distance from the divide, which was beyond question intended by the Executive order and report of Commissioner to mark this boundary.

After careful examination I decide to abandon the line described and from 2nd mile corner run a line fitted as closely as possible to the actual divide of waters.

Up to about the 4th mile the country is not remarkable being generally open, and growing tall prairie grasses, with sage brush, and now & then patches of scrub cedar.

West and North of this point the country grows rougher and higher with every mile.

The mountain sides are generally covered with fair fine and fur timber.

No very great difficulty was encountered in running except from the 97th to the 114th mile corners. When triangulation was resorted to.

During the last three days, however, a considerable quantity of snow fell impeding the work somewhat.

The triangulations by which the North West & North boundaries were determined were made by H. C. Oates.

The range so located is high and rugged; the peaks selected being high and very clearly defined. The connection of the N. E. corner peak No 13 with 57th M. P. of Huboise survey depends for accuracy of that survey, as the course and distance from old mill to 57th M. P. was taken from his notes. The determination of last course by actual measurement from 57th M. P. was made impossible by excessive depth of snow. As a whole this Reservation embraces a large area of useful and valuable country.

The valleys along the Clinch and Huckleberry rivers, and Strawberry Creek, though comparatively narrow, are of the best

Bottom lands, rich in fine grasses and a fringe of cottonwood timber along back stream.

In addition to this the Uplands on either side furnish abundant range for stock.

[By this Reservation as in the uncombed coal may be mined at many points.]

Solar transits were used throughout these surveys, so that observations on Polaris were omitted.

We hereby certify that we assisted Frank C. Oakes, Herard & Bennett
 Deputy Surveyors in surveying parts or portions of the Tract: Part 2
West Boundary of the Ute Campahge like & the S. W. 1/4 N.
Boundary of the Montaki Indian Reservation in
Ute Park
 of the Principal Association
 as are represented in the foregoing field notes as having been surveyed by
 him and under his direction; and that said survey has been in all re-
 spects, to the best of our knowledge and belief, well and faithfully sur-
 veyed, and the corner monuments established according to the instructions
 furnished by the Hon. the Commissioner of the General for Colorado.

James E. May

Comptroller

Eli Long

Chairman

J. A. Smart

Chairman

S. G. Smith

Chairman

G. A. Duncan

Chairman

Alex. Stevens

Axeman

Howard F. Ellis

Flagman

Subscribed and sworn to before me this 26th day of
January, 1885.

Fred R. Stewart

Notary Public

SEAL
 We Frank C. Oakes, Herard & Bennett United States Deputy
 Surveyors do solemnly swear that in pursuance of instructions received
 from the Hon. the Commissioner of the General Land Office
 bearing date the first day of October 1884,
 I have well, faithfully, and truly, in my own proper person, and in
 strict conformity with the instructions furnished by the United States
 Surveyor-General for Colorado, the surveying manual, and the laws
 of the United States, surveyed all those parts or portions of the
Ute Campahge like & the S. W. 1/4 N.
Boundary of the Montaki Indian Reservation in
Ute Park

Principal Association, as are represented in the
 foregoing field notes as having been surveyed by us and under ~~our~~ directions;
 and we do further solemnly swear that all the corners of said sur-
 vey have been established and perpetuated in strict accordance with the

surveying manual, printed instructions, the special written instructions
~~of the Commissioner of the General Land Office~~
 of the United States Surveyor General for Colorado and in the specific
 manner described in the field notes, and that the foregoing are the true
 field notes of such survey; and, should any fraud be detected, I will
 suffer the penalty of perjury, under the provisions of an act of Congress,
 approved August 8, 1846.

Daniel C. Oakes

Hiram P. Bennett Jr.

United States Deputy Surveyors

Subscribed and sworn to before me this 26th day of
 January, 1885.



Fred R. Stewart

Notary Public.

Department of the Interior

~~Surgeon General's Office,~~

General Land Office

Washington, D.C. March 5th 1885

The foregoing field notes of the survey of the East, South
 and West Boundaries of the Uncompahgre Mts.
 and parts of the Mts. of the Gunnison River, executed by Daniel C. Oakes & Hiram P. Bennett Jr.
 under their contract of the fourteenth day of October 1884,
 having been critically examined, the necessary corrections and explanations
 made, the said field notes and the surveys they describe are hereby ap-
 proved.

A. M. Patterson
 Asst. Commissioner